



**Microsoft**

**Exam Questions 70-480**

Programming in HTML5 with JavaScript and CSS3

### NEW QUESTION 1

You are developing a customer web form that includes the following HTML.

```
<input id="txtValue" type="text" />
```

A customer must enter a valid age in the text box prior to submitting the form. You need to add validation to the control.

Which code segment should you use?

- ☐ A. 

```
function validate() {
    var value = $("#txtValue").text();
    var regex = /^[0-9]*$/;
    if (!regex.test(value) || name == "")
        alert("please enter valid value");
    return;
}
```
- ☐ B. 

```
function validate() {
    var name = $("#txtValue").val();
    if (name == null || name == "")
        alert("please enter valid value");
    return;
}
```
- ☐ C. 

```
function validate() {
    var name = $("#txtValue").text();
    if (name == null || name == "")
        alert("please enter valid value");
    return;
}
```
- ☐ D. 

```
function validate() {
    var value = $("#txtValue").val();
    var regex = /^[0-9]*$/;
    if (!regex.test(value) || value == "")
        alert("please enter valid value");
    return;
}
```
- ```
return emailPattern.test(userinput);
}
```

- A. Option A  
 B. Option B  
 C. Option C  
 D. Option D

**Answer:** D

**Explanation:**

.val

Return value

A string containing the value of the element, or an array of strings if the element can have multiple values

### NEW QUESTION 2

DRAG DROP

You are developing a form that captures a user's email address by using HTML5 and jQuery.

The form must capture the email address and return it as a query string parameter. The query string parameter must display the @ symbol that is used in the email address.

You need to implement this functionality.

How should you develop the form? (To answer, drag the appropriate code segment to the correct target or targets in the answer are

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

\* The serialize() method creates a URL encoded text string by serializing form values.

You can select one or more form elements (like input and/or text area), or the form element itself. The serialized values can be used in the URL query string when making an AJAX request.

Example: \$("form").serialize();

\* decodeURIComponent

The decodeURIComponent() function decodes a URI component. Return Value: A String, representing the decoded URI

Incorrect:

Not decodeURI:

decodeURI is intended for use on the full URI.

decodeURIComponent is intended to be used on .. well .. URI components that is any part that lies between separators (; / ? : @ & = + \$ , #).

Reference: jQuery serialize() Method [http://www.w3schools.com/jquery/ajax\\_serialize.asp](http://www.w3schools.com/jquery/ajax_serialize.asp) [http://www.w3schools.com/jsref/jsref\\_encodeuri.asp](http://www.w3schools.com/jsref/jsref_encodeuri.asp)

### NEW QUESTION 3

You are developing an application that consumes a Windows Communication Foundation (WCF) service.

The application interacts with the service by using the following code. (Line numbers are included for reference only.)

```
01 <script>
02   function getCountry(country) {
03       $.ajax({
04           type: "POST",
05           contentType: "application/json; charset=utf-8",
06           url: "http://contoso.com/Service.svc/GetCountry",
07           data: '{"Country":"' + country + '}',
08           dataType: "json",
09           success: OnSuccess,
10           error: OnError
11       });
12   }
13   function OnSuccess(data, status) {
14       ...
15   }
16   function OnError(request, status, error) {
17       ...
18   }
19 }
20 </script>
```

You need to authenticate to the WCF service. What should you do?

- A. At line 11, add the following lines of code.,username: yourusername,password: yourpassword
- B. At line 11, add the following line of code.,credentials: prompt
- C. At line 06, replace the code with the following line of cod
- D. url: "http://contoso.com/Service.svc/GetCountry? Username=username&password=password",
- E. At line 11, add the following line of cod
- F. The username and password will be stored in an XML file.,credentials: credentials.xml

**Answer: C**

### NEW QUESTION 4

You are developing a customer web form that includes the following HTML.

<input id = "txtValue" />

A customer must enter a value in the text box prior to submitting the form. You need to add validation to the text box control.

Which HTML should you use?

- A. <input id="txtValue" type="text" required="required"/>
- B. <input id="txtValue" type="text" pattern="[A-Za-z]{3}" />
- C. <input id="txtValue" type="required" />
- D. <input id="txtValue" type="required" autocomplete="on" />

**Answer: A**

#### Explanation:

Definition and Usage

The required attribute is a boolean attribute.

When present, it specifies that an input field must be filled out before submitting the form. Example

An HTML form with a required input field:

<form action="demo\_form.asp">

Username: <input type="text" name="usrname" required>

<input type="submit">

</form>

Username: <input type="text" name="usrname" required> Reference: HTML <input> required Attribute [http://www.w3schools.com/tags/att\\_input\\_required.asp](http://www.w3schools.com/tags/att_input_required.asp)

### NEW QUESTION 5

You are creating a class named Consultant that must inherit from the Employee class. The Consultant class must modify the inherited PayEmployee method. The

Employee class is defined as follows. function Employee() {}

Employee.prototype.PayEmployee = function ( ){ alert('Hi there!');

}

Future instances of Consultant must be created with the overridden method. You need to write the code to implement the Consultant class.

Which code segments should you use? (Each correct answer presents part of the solution. Choose two.)

- A. Consultant.PayEmployee = function ( ){alert('Pay Consultant');}
- B. Consultant.prototype.PayEmployee = function ( ){alert('Pay Consultant');}
- C. function Consultant ( ) { Employee.call(this);}Consultant.prototype = new Employee(); Consultant.prototype.constructor = Consultant;

D. function Consultant() { Employee.call(this); }Consultant.prototype.constructor = Consultant.create;

**Answer:** BC

**Explanation:**

Returns a reference to the Object function that created the instance's prototype. Note that the value of this property is a reference to the function itself, not a string containing the function's name. The value is only read-only for primitive values such as 1, true and "test".

\* The constructor property is created together with the function as a single property of func.prototype.

Reference: Object.prototype.constructor

**NEW QUESTION 6**

You are modifying an existing web page. The page is being optimized for accessibility. The current page contains the following HTML.

```
<ul>
  <li><a href="#">Home</a></li>
  <li><a href="#">Sales</a></li>
  <li><a href="#">Operations</a></li>
</ul>
```

Standards-compliant screen readers must be able to identify the links contained within the navigation structure automatically.

You need to create the navigation link structure in the page.

With which container tags should you wrap the existing markup?

- A. <navmap></navmap>
- B. <div id="nav"></div>
- C. <nav></nav>
- D. <map></map>

**Answer:** C

**Explanation:**

HTML <nav> Tag Example

A set of navigation links:

```
<nav>
<a href="/html/">HTML</a> |
<a href="/css/">CSS</a> |
<a href="/js/">JavaScript</a> |
<a href="/jquery/">jQuery</a>
</nav>
```

Reference: HTML <nav> Tag [http://www.w3schools.com/tags/tag\\_nav.asp](http://www.w3schools.com/tags/tag_nav.asp)

**NEW QUESTION 7**

**HOTSPOT**

You are developing an airline reservation website by using HTML5 and JavaScript. A page on the site allows users to enter departure and destination airport information and search for tickets.

You have the following requirements:

Users must be able to save information in the application about their favorite destination airport.

The airport information must be displayed in the destination text box whenever the user returns to the page.

You need to develop the site to meet the requirements.

Which lines of code should you use? (To answer, select the appropriate options from the drop-down lists in the answer area.)



```
<body>
  <input id="txtDest" type="text" />
  <input type="button" value="Submit"
    onclick="storeDestination('txtDest')" />
  <script>
    showDestination();
    function showDestination() {
      var dest = localStorage.destination;

      if (dest != null)
        document.getElementById("txtDest").value = dest;
    }

    function storeDestination(id) {
      var dest = document.getElementById(id).value;

      var dest = localStorage.destination;

    }
  </script>
</body>
```

```
<body>
  <input id="txtDest" type="text" />
  <input type="button" value="Submit"
    onclick="storeDestination('txtDest')" />
  <script>
    showDestination();
    function showDestination() {
      var dest = localStorage.destination;
      var dest = localStorage.destination;
      localStorage.destination = dest;
      var dest = sessionStorage.destination;
      sessionStorage.destination = dest;

      if (dest != null)
        document.getElementById("txtDest").value = dest;
    }

    function storeDestination(id) {
      var dest = document.getElementById(id).value;

      var dest = localStorage.destination;
      var dest = localStorage.destination;
      localStorage.destination = dest;
      var dest = sessionStorage.destination;
      sessionStorage.destination = dest;

    }
  </script>
</body>
```

- A. Mastered  
 B. Not Mastered

Answer: A

Explanation:

- \* retrieve localStorage.destination
- \* store localStorage.destination

NEW QUESTION 8

HOTSPOT

You are developing an HTML5 web application for displaying encyclopedia entries. Each encyclopedia entry has an associated image that is referred to in the entry. You need to display the image by using the correct semantic markup. What should you do? (To answer, select the appropriate options from the drop-down list in the answer area.)



Image description

title  
figcaption  
label  
aside  
figure  
cite



title  
figcaption  
label  
aside  
figure  
cite

Image description

title  
figcaption  
label  
aside  
figure  
cite

title  
figcaption  
label  
aside  
figure  
cite

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

The <figure> element

The <figure> element is intended to be used in conjunction with the <figcaption> element to mark up diagrams, illustrations, photos, and code examples (among other things).

Example:

```
<figure>

<figcaption>A cheeky macaque, Lower Kintaganban River, Borneo. Original by <a href="http://www.flickr.com/photos/rclark/">Richard Clark</a></figcaption>
</figure>
```

Reference: The figure & figcaption elements

**NEW QUESTION 9**

You are creating a JavaScript object that represents a customer.

You need to extend the Customer object by adding the GetCommission() method.

You need to ensure that all future instances of the Customer object implement the GetCommission() method.

Which code segment should you use?

- ☐ A. 

```
Customer.apply.GetCommission() = function()
{
    alert('payroll');
}
```
- ☐ B. 

```
Customer.prototype.GetCommission() = function Customer.GetCommission() ()
{
    alert('payroll');
}
```
- ☐ C. 

```
Customer.GetCommission() = function () {
    alert('payroll');
}
```
- ☐ D. 

```
Customer.prototype.GetCommission() = function ()
{
    alert('payroll');
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

**Explanation:**

\* Object.prototype.constructor

Returns a reference to the Object function that created the instance's prototype. Note that the value of this property is a reference to the function itself, not a string containing the function's name. The value is only read-only for primitive values such as 1, true and "test".

\* The constructor property is created together with the function as a single property of func.prototype.

Reference: Object.prototype.constructor

**NEW QUESTION 10**

You are developing a web form that includes the following code.

```
<div id="dynamicForm">
    <input type="checkbox" id="myCheckbox" onclick="ShowInputBox('dynamicForm');">
</div>
```

When a user selects the check box, an input text box must be added to the page dynamically. You need to ensure that the text box is added.

Which function should you use?



- ☐ A. 

```
function ShowInputBox(divName)
{
    var newInputDiv = document.createElement('div');
    newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
    document.getElementById(newInputDiv).appendChild(divName);
}
```
- ☐ B. 

```
function ShowInputBox(divName)
{
    var newInputDiv = document.createElement('div');
    newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
    document.getElementById(divName).appendChild(newInputDiv);
}
```
- ☐ C. 

```
function ShowInputBox(divName)
{
    var newInputDiv = document.createElement('div');
    newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
    document.getElementById(divName).applyElement (newInputDiv);
}
```
- ☐ D. 

```
function ShowInputBox(divName)
{
    var newInputDiv = document.createElement('div');
    newInputDiv.innerHTML = "<input type='text' id='newInputBox'>";
    document.getElementById(newInputDiv).applyElement (divName);
}
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** B

**Explanation:**

We create a new div element with the textbox.

We then use appendChild() method appends this node as the last child the input node divname. Reference: HTML DOM appendChild() Method

**NEW QUESTION 10**

**HOTSPOT**

You are creating a web worker for an HTML5 application.

The following tasks must be performed from within the web worker: Register an event listener for the web worker

Start and stop the web worker

You need to define a function that performs the required tasks.

Which code segment should you use? (To answer, select the appropriate option from the drop-down list in the answer area.)



```
self.postMessage('Worker: ' + data);

var data = event.data;
switch (data.cmd) {
  case 'start':
    self.postMessage('Worker: ' + data);
    break;
  case 'stop':
    self.postMessage('Worker: ' + data);
    break;
  default:
    self.postMessage('Try again: ' + data.msg);
    default:
      self.postMessage('Try again: ' + data.msg);
};
}, false);
```

```
self.postMessage('Worker: ' + data);
self.postMessage('Worker: ' + data);
self.addEventListener('message', function(event));
self.attachEvent('Worker', data);
self.terminate();
self.close();

var data = event.data;
switch (data.cmd) {
  case 'start':
    self.postMessage('Worker: ' + data);
    self.postMessage('Worker: ' + data);
    self.addEventListener('message', function(event));
    self.attachEvent('Worker', data);
    self.terminate();
    self.close();
    break;
  case 'stop':
    self.postMessage('Worker: ' + data);
    self.postMessage('Worker: ' + data);
    self.addEventListener('message', function(event));
    self.attachEvent('Worker', data);
    self.terminate();
    self.close();
    break;
  default:
    self.postMessage('Try again: ' + data.msg);
    default:
      self.postMessage('Try again: ' + data.msg);
};
}, false);
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\* addEventListener

The addEventListener() method attaches an event handler to the specified element.

In context of a worker, both self and this refer to the global scope. The worker can either add an event listener for the message event, or it can define the onmessage handler to listen for any messages sent by the parent thread.

\* postmessage

Pass a message to the worker.

\* close()

Terminating Workers

Workers are resource-intensive; they are OS-level threads. Therefore, you do not want to create a large number of worker threads, and you should terminate the web worker after it completes its work. Workers can terminate themselves, like this:

self.close();

Reference: HTML DOM addEventListener() Method; The Basics of Web Workers

**NEW QUESTION 12**

You are creating a JavaScript function that displays the name of a web application. You declare the following button element.

<input type="button" id="About" value="About" />

When a user clicks the button, a JavaScript function named About must be called.

You need to create an event handler that calls the About function when the button is clicked.

Which two code segments can you use? (Each correct answer presents a complete solution. Choose two.)

- ☐ A. 

```
var button = document.getElementById("About");
ScriptEngine.call(button, About());
```
- ☐ B. 

```
var button = document.getElementById("About");
ScriptEngine.bind(button, About());
```
- ☐ C. 

```
var button = document.getElementById("About");
button.addEventListener("click", About);
```
- ☐ D. 

```
var button = document.getElementById("About");
button.attachEvent("onclick", About);
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** CD

**Explanation:**

C: addEventListener

The addEventListener() method attaches an event handler to the specified element.

In context of a worker, both self and this refer to the global scope. The worker can either add an event listener for the message event, or it can define the onmessage handler to listen for any messages sent by the parent thread.

D: attachEvent method

Registers an event handler function (event listener) for the specified event on the current object.

Reference: addEventListener method; attachEvent method <http://help.dottoro.com/ljeuqqoq.php> <http://help.dottoro.com/ljinxrmt.php>

**NEW QUESTION 17**

**HOTSPOT**

You are creating a function by using JavaScript. The function accepts an object as the parameter and returns a string that identifies the data type of the object.

You have the following requirements:

The function must return "Number" if the object is a number. The function must return "String" if the object is a string.

The function must return "Unknown" if the object is neither a number nor a string. You need to implement the function to meet the requirements.

How should you build the code segment? (To answer, select the appropriate options from the drop-down lists in the answer area.)

```
function GetObjectType(obj) {
  default (obj.constructor) {
    default Number:
      return "Number";
    default ;
    default String:
      return "String";
    default ;
    default :
      return "Unknown";
  }
}

function GetObjectType(obj) {
  default (obj.constructor) {
    default
    switch
    break
    case
    default Number:
    default
    switch
    break
    case
      return "Number";
    default ;
    default
    switch
    break
    case
    default String:
    default
    switch
    break
    case
      return "String";
    default ;
    default
    switch
    break
    case
    default :
    default
    switch
    break
    case
      return "Unknown";
  }
}
```



- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

\* Use the switch statement to select one of many blocks of code to be executed.

```
Syntax switch(expression) {  
case n:  
code block break;  
case n:  
code block break;  
default:  
default code block  
}
```

This is how it works:

The switch expression is evaluated once.

The value of the expression is compared with the values of each case. If there is a match, the associated block of code is executed.

\* Object.prototype.constructor

Returns a reference to the Object function that created the instance's prototype. Note that the value of this property is a reference to the function itself, not a string containing the function's name. The value is only read-only for primitive values such as 1, true and "test".

\* Description

All objects inherit a constructor property from their prototype: var o = {};

o.constructor === Object; // true var a = [];

a.constructor === Array; // true var n = new Number(3); n.constructor === Number; // true

\* The constructor property is created together with the function as a single property of func.prototype.

Reference: JavaScript Switch Statement;Object.prototype.constructor

**NEW QUESTION 22**

You need to test the value of the following variable in JavaScript. var length = "75";

A block of code must execute if the length equals 75 regardless of the data type. You need to use the statement that meets this requirement.

Which lines of code should you use? (Each correct answer presents a complete solution. Choose two.)

- A. if (length == 75)  
B. if (length == "75")  
C. if (length != 75)  
D. if (length == "75")

**Answer:** BD

**Explanation:**

When comparison is made using double-equals operator (==), it will check the values of variable and convert them to a common type and returns true if both are equals. So comparing number with string having the same value will return true.

Examples: examples: 1

```
console.log(23 == "23"); // true
```

2

```
console.log(1 == true); // true Incorrect:
```

not ===: This is "strict" or "identical" equality.

Reference: JavaScript Triple Equals Operator vs Double Equals Operator ( === vs == )

**NEW QUESTION 27**

You are troubleshooting a web page that includes the following code. (Line numbers are included for reference only.)

```
01 <!DOCTYPE html>  
02 <html lang="en" xmlns="http://www.w3.org/1999/xhtml">  
03 <head>  
04   <meta charset="utf-8" />  
05   <title></title>  
06   <script>  
07     document.addEventListener("DOMContentLoaded", function () {  
08       var elButton = document.getElementById("myButton");  
09       var elDiv = document.getElementById("myDiv");  
10       elButton.addEventListener("click", function () {  
11         alert(this.type);  
12       }, false);  
13     }, false);  
14   </script>  
15 </head>  
16 <body>  
17   <div id="myDiv">Test</div>  
18   <input type="button" id="myButton" value="Click Me" />  
19 </body>  
20 </html>
```

What is displayed in the alert from line 11?

- A. Div  
B. Function



- C. Button
- D. Document

**Answer:** C

**Explanation:**

\* The event handler here normalizes event object (passed as a first argument) and invokes handleClick in a proper context (i.e. referring to an element that was attached event listener to). The element is the button elButton.

\* addEventListener

Syntax: element.addEventListener(event, function, useCapture) Reference: HTML DOM addEventListener() Method

**NEW QUESTION 28**

You are developing a web application that consumes services from a third-party application. A web worker processes the third-party application requests in the background. A page in the application instantiates the web worker process.

You need to establish two-way communications between the web worker process and the page. Which two actions will achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. From the web worker, use the onconnect event handler of the main page to capture events.
- B. From the main page, use the onmessage event handler of the web worker to capture events.
- C. From the web worker, use the onmessage event handler of the main page to capture events.
- D. From the main page, use the onconnect event handler of the web worker to capture events.

**Answer:** BC

**Explanation:**

\* When postMessage() is called from the main page, our worker handles that message by defining an onmessage handler for the message event.

\* Server-Sent Events - One Way Messaging

A server-sent event is when a web page automatically gets updates from a server. Receive Server-Sent Event Notifications

The EventSource object is used to receive server-sent event notifications:

Example

```
var source = new EventSource("demo_sse.php"); source.onmessage = function(event) {  
document.getElementById("result").innerHTML += event.data + "<br>";  
};
```

Reference: [http://www.w3schools.com/html/html5\\_serversentevents.asp](http://www.w3schools.com/html/html5_serversentevents.asp) <http://www.html5rocks.com/en/tutorials/workers/basics/>

**NEW QUESTION 30**

You are developing an HTML5 web application that displays customer mailing address information. The application loads addresses from a web service by using AJAX. The following code defines a Customer object and loads address data.

```
function Customer(firstName, lastName) {  
    this.firstName = firstName;  
    this.lastName = lastName;  
    this.address = "";  
}  
  
Customer.prototype.parseAddress = function (data) {  
    this.address = data.address;  
}  
  
Customer.prototype.loadAddress = function () {  
  
}
```

You need to implement the loadAddress function. Which code segment should you use?

- ☐ A. 

```
$.get('data.xml', function (data) {  
    (function (scope) {  
        scope.parseAddress(data);  
    })(data);  
});
```
- ☐ B. 

```
$.get('data.xml', function (data, innerScope) {  
    innerScope.parseAddress(data);  
});
```
- ☐ C. 

```
var that = this;  
$.get('data.xml', function (data) {  
    that.parseAddress(data);  
});
```
- ☐ D. 

```
$.get('data.xml', function (data) {  
    this.parseAddress(data);  
});
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** C

#### NEW QUESTION 35

You are developing an HTML5 web page.

The appearance of the text box must change when a user moves the focus to another element on the page.

You need to develop the page to respond to user action. Which line of code should you use?

- A. `<input type="text" onblur="resetStyle(this);" />`  
B. `<input type="text" onfocus="resetStyle(this);" />`  
C. `<input type="text" onreset="resetStyle(this);" />`  
D. `<input type="text" onselect="resetStyle(this);" />`

**Answer:** A

#### Explanation:

Definition and Usage

The onblur event occurs when an object loses focus.

Example

Execute a JavaScript when a user leaves an input field:

`<input type="text" onblur="myFunction()">` Reference: onblur Event [http://www.w3schools.com/jsref/event\\_onblur.asp](http://www.w3schools.com/jsref/event_onblur.asp)

#### NEW QUESTION 38

DRAG DROP

You are developing an online shopping application that accepts credit cards for payment. If the credit card number is invalid, the application must:

Generate an error

Assign "200" to the error number Assign "Invalid" to the error description

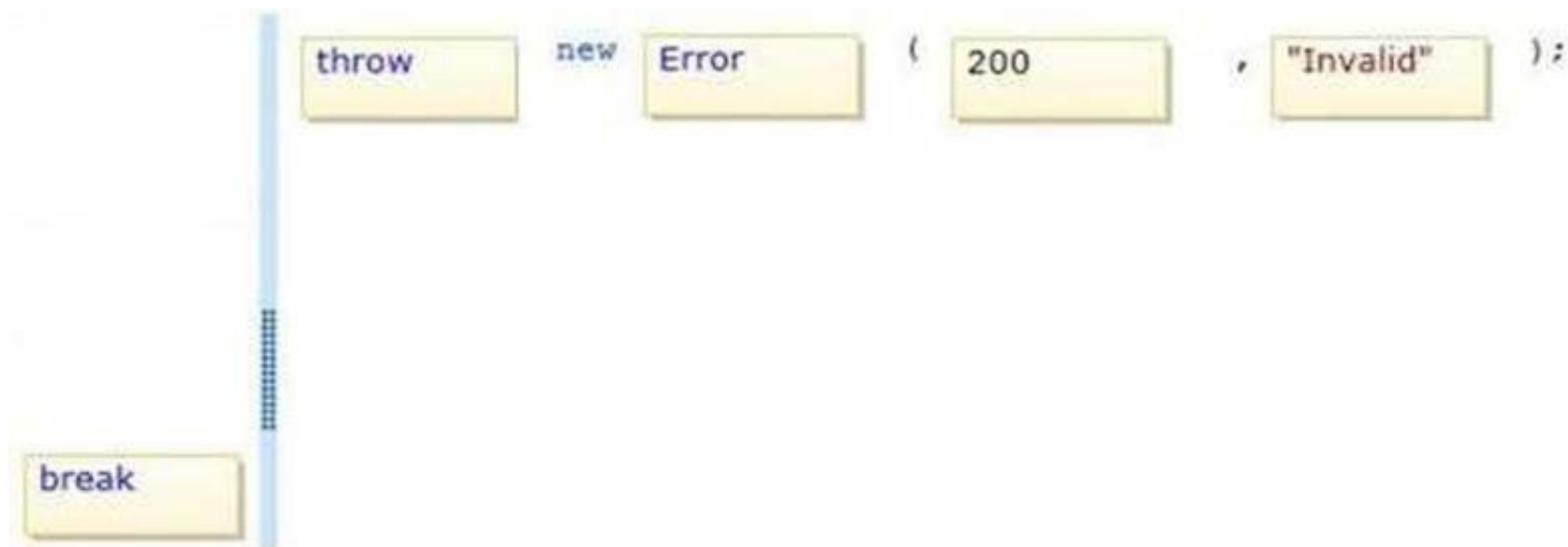
You need to write the code that meets the requirements.

How should you write the code? (To answer, drag the appropriate code segment or segments to the correct location in the answer are

- A. Mastered  
B. Not Mastered

**Answer:** A

#### Explanation:



Example: throw new Error(200, "x equals zero"); Reference: throw Statement (JavaScript)

#### NEW QUESTION 40

You are creating a web form that users will use to enter their personal information. The form includes the following HTML.

```
<body>
  <table>
    <tr>
      <td>Item</td>
      <td>Input</td>
      <td>Current</td>
    </tr>
    <tr>
      <td>First Name</td>
      <td>
        <input type="text" />
      </td>
      <td></td>
    </tr>
    <tr>
      <td>Last Name</td>
      <td>
        <input type="text" />
      </td>
      <td></td>
    </tr>
  </table>
</body>
```

You have the following requirements:

When a user enters an input box, the cell on the right must turn green. When a user leaves an input box, the cell on the right must turn white. You need to create the web form to meet these requirements.

Which code segment should you use? nth-child



- ☐ A. `$(document).ready(function () {  
 $('table td: nth-child(2) input').focus(  
 function () {  
 $(this).parent().next().css  
 ("background-color", "#00FF00");  
 });  
 $('table td: nth-child(2) input').blur(  
 function () {  
 $(this).parent().next().css  
 ("background-color", "#FFFFFF");  
 });  
 });`
- ☐ B. `$(document).ready(function () {  
 $('table td: eq(2) input').focus(  
 function () {  
 $(this).parent().parent().next().css  
 ("background-color", "#00FF00");  
 });  
 $('table td: eq(2) input').blur(  
 function () {  
 $(this).parent().parent().next().css  
 ("background-color", "#FFFFFF");  
 });  
 });`
- ☐ C. `$(document).ready(function () {  
 $('table td:eq(2) input').focus(  
 function () {  
 $(this).parent().next().css  
 ("background-color", "#00FF00");  
 });  
 $('table td:eq(2) input').blur(  
 function () {  
 $(this).parent().next().css  
 ("background-color", "#FFFFFF");  
 });  
 });`
- ☐ D. `$(document).ready(function () {  
 $('table td:nth-child(2) input').focus(  
 function () {  
 $(this).parent().parent().next().css  
 ("background-color", "#00FF00");  
 });  
 $('table td:nth-child(2) input').blur(  
 function () {  
 $(this).parent().parent().next().css  
 ("background-color", "#FFFFFF");  
 });  
 });`

- A. Option A  
 B. Option B  
 C. Option C  
 D. Option D

**Answer:** A

**Explanation:**

\* The :nth-child(n) selector matches every element that is the nth child, regardless of type, of its parent. n can be a number, a keyword, or a formula. Example  
 Specify a background color for every <p> element that is the second child of its parent: p:nth-child(2) {  
 background: #ff0000;  
 }  
 \* parent.next()  
 Here: the cell to the right of the current cell. Reference: CSS3 :nth-child() Selector

**NEW QUESTION 42**



You are developing a web page. You create a grid layout by using the following CSS segment.

```
#myGrid {  
  display: -ms-grid;  
  background: gray;  
  -ms-grid-columns: 100px 100px;  
  -ms-grid-rows: 50px 50px 50px;  
}
```

You have the following requirements:

You must place content in the first column of the second row. The content must span two columns.

You need to ensure that the style of the grid meets the requirements. Which CSS segment should you use?

- ☐ A. 

```
#itemSpan {  
  -ms-grid-row: 2;  
  -ms-grid-column: 1;  
  -ms-grid-column-span: 2;  
}
```
- ☐ B. 

```
#itemSpan {  
  -ms-grid-row: 2;  
  -ms-grid-column: 1;  
  -ms-grid-column-span: initial;  
}
```
- ☐ C. 

```
#itemSpan {  
  -ms-grid-row: 2;  
  -ms-grid-column: 1;  
  -ms-grid-column-width: 2;  
}
```
- ☐ D. 

```
#itemSpan {  
  -ms-grid-row: 2;  
  -ms-grid-column: 1;  
  -ms-grid-column-span: inherit;  
}
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** A

**Explanation:**

-ms-grid-column-span

Gets or sets a value that specifies the number of columns of the grid that the object spans. This property is read-only.

Property values

The number of columns.

Integer value that specifies the number of columns to span. Reference: -ms-grid-column-span property

**NEW QUESTION 47**

You are styling a box object on a page by using CSS3. You need to set the transparency of the object to 50%.

Which two CSS3 styles will achieve the goal? (Each correct answer presents a complete solution.

Choose two.)

- ☐ A. 

```
.Box {  
    background: rgb(255,0,0);  
    backface-visibility: hidden;  
}
```
- ☐ B. 

```
.Box {  
    background: rgb(255,0,0);  
    background: rgba(255,0,0,.5);  
}
```
- ☐ C. 

```
.Box {  
    background: rgb(255,0,0);  
    opacity: 0.5;  
}
```
- ☐ D. 

```
.Box {  
    background: rgb(255,0,0);  
    background-color: #fff;  
}
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** BC

**Explanation:**

The RGBA declaration allows you to set opacity (via the Alpha channel) as part of the color value. Example:

```
div { background-color: rgba(255,0,0,0.5); }
```

The background color has been set to blue, and the opacity set to half. Example 2:

```
background-color: rgb(0,0,255); opacity: 0.5;
```

The background color has been set to blue, and the opacity set to half. Reference: A brief introduction to Opacity and RGBA <http://www.css3.info/introduction-opacity-rgba/>

**NEW QUESTION 52**

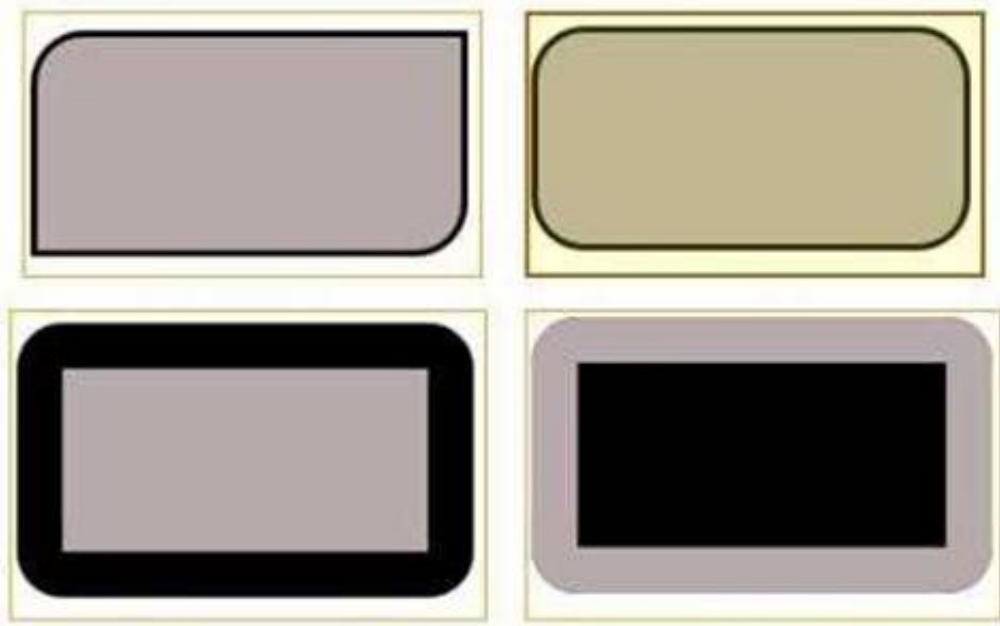
**HOTSPOT**

You are developing an HTML5 application for a company. You apply the following style to a DIV element on a page.

```
div  
{  
    border:3px solid;  
    background:#b6aaaa;  
    width:200px;  
    height:100px;  
    top: 10%;  
    left:10%;  
    border-radius:25px 0px 25px 0px;  
}
```

You need to submit a draft illustration of the results of this code.

Which illustration should you submit? (To answer, select the appropriate illustration in the answer area.)



- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

Example: div {  
 border: 3px solid; background: #b6aaaa; width: 200px;  
 height: 100px; top 10%;  
 left 10%;  
 border-radius: 25px 0px 25px 0px;  
 }

Result:



Reference: CSS3 border-radius Property

**NEW QUESTION 55**

**DRAG DROP**

You are developing a web page that will be accessed from various types of devices. You have the following requirements:

The appropriate display resolution must be selected dynamically based on the device that is connecting to the page.

Mobile devices with a maximum width of 480 pixels must be able to use the page. You need to ensure that the page displays correctly on any device.

How should you build the code? (To answer, drag the appropriate media statement to the correct location. Each media statement may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.)

- screen and (min-width:200px) and (max-width:480px)
- size and (min-width:200px) and (max-width:480px)
- screen and (min-width:480px)
- size and (min-width:480px)

```
@media [ ]
{
    #navbar {
        float: none;
        width: 200px;
    }
}
@media [ ]
{
    #navbar {
        float: left;
        width: 500px;
    }
}
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\* The @media rule is used to define different style rules for different media types/devices. CSS Syntax  
@media not|only mediatype and (media feature) { CSS-Code;  
}  
\* Media type: Screen  
Used for computer screens. Incorrect:  
Not size: there is no media type size.  
Reference: CSS3 @media Rule; CSS Media Types

**NEW QUESTION 59**

You are developing a web page that will be divided into three vertical sections. The main content of the site will be placed in the center section. The two outer sections will contain advertisements.

You have the following requirements:

The main content section must be set to two times the width of the advertising sections. The layout must be specified by using the CSS3 flexible box model.

You need to ensure that the visual layout of the page meets the requirements. Which CSS3 property should you use?

- A. box-orient
- B. box-flex-group
- C. box-flex
- D. box-direction

**Answer:** C

**Explanation:**

box-flex  
Values: 0 | Any integer  
The flexibility ratio for this child. If a child had 1 and its sibling had 2, any additional space in the parent box would be consumed twice as much by the sibling. It defaults to 0 which is inflexible. Reference: Quick hits with the Flexible Box Model <http://www.html5rocks.com/en/tutorials/flexbox/quick/>

**NEW QUESTION 63**

You are developing an HTML5 page. The page includes the following code.

```
<p id="outer" style="position:relative">  
  <p id="inner"></p>  
</p>
```

The inner paragraph must be exactly 15 pixels from the top left corner of the outer paragraph. You set the left style for the inner paragraph to the appropriate value.

You need to set the position property of the inner paragraph. Which value should you use?

- A. absolute
- B. static
- C. fixed
- D. relative

**Answer:** A

**Explanation:**

absolute: The element is positioned relative to its first positioned (not static) ancestor element. Incorrect:  
Not D:  
relative: The element is positioned relative to its normal position, so "left:20" adds 20 pixels to the element's LEFT position.  
Reference: CSS position Property [http://www.w3schools.com/cssref/pr\\_class\\_position.asp](http://www.w3schools.com/cssref/pr_class_position.asp)

**NEW QUESTION 65**

You are developing a customer web form that includes the following HTML.

```
<input id="txtValue"/>
```

You need to change the HTML markup so that customers can enter only a valid three-letter country code.

Which HTML should you use?

- A. <input id="txtValue" type="code" />
- B. <input id="txtValue" type="text" pattern="[A-Za-z]{3}" />
- C. <input id="txtValue" type="text" required="required"/>
- D. <input id="txtValue" type="country" />

**Answer:** B

**Explanation:**

HTML <input> pattern Attribute  
The pattern attribute specifies a regular expression that the <input> element's value is checked against.  
Example  
An HTML form with an input field that can contain only three letters (no numbers or special characters):  
<form action="demo\_form.asp">  
Country code: <input type="text" name="country\_code" pattern="[A-Za-z]{3}" title="Three letter country code">  
<input type="submit">



</form>

Reference: HTML <input> pattern Attribute [http://www.w3schools.com/tags/att\\_input\\_pattern.asp](http://www.w3schools.com/tags/att_input_pattern.asp)

#### NEW QUESTION 67

##### DRAG DROP

You are developing an application that reads information from a file. The application must:

Execute a block of code if there is an error accessing the file

Execute a second block of code whether or not there is an error accessing the file You need to ensure that the error handling requirements are met.

Which three statements should you implement in sequence? (To answer, move the appropriate statements from the list of actions to the answer area and arrange them in the correct order.)

catch(e)

debug

throw

try

finally

- A. Mastered
- B. Not Mastered

Answer: A

##### Explanation:

catch(e)

debug

throw

try

finally

try

catch(e)

finally

Explanation

The fileopen statement is put within the try clause. The catch(e) will catch a fileopen error.

The finally clause will be executed regardless of whether an error occurs in the try clause proceeding it

#### NEW QUESTION 71

You are creating a JavaScript function to display the current version of a web application You declare a button as follows.

<input type="button" id="About" value="About" />

You need to create an event handler for the button by using an anonymous function. Which code segment should you use?

- ☐ A. 

```
var button = document.getElementById("About");
button.addEventListener('click', function { alert("Version 2.1.0") } );
```
- ☐ B. 

```
var button = document.getElementById("About");
button.addEventListener('click', function (alert("Version 2.1.0") ) );
```
- ☐ C. 

```
var button = document.getElementById("About");
button.addEventListener('click', function () { alert("Version 2.1.0") } );
```
- ☐ D. 

```
var button = document.getElementById("About");
button.addEventListener('click', alert("Version 2.1.0") );
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

##### Explanation:

Example

When passing parameter values, use an "anonymous function" that calls the specified function with the parameters:

document.addEventListener("click", function() { myFunction(p1, p2);

});  
Reference: HTML DOM addEventListener() Method

#### NEW QUESTION 76

You are testing the value of the following variable in JavaScript. `var height = "300";`  
A block of code must execute if the following conditions are true: The height variable is set to 300  
The height variable is of type string  
You need to implement the code to run the test. Which line of code should you use?

- A. `if (height == 300)`
- B. `if (height == "300")`
- C. `if (height != "300")`
- D. `if (height != 300)`

**Answer:** B

#### Explanation:

Use `==` to test for equality.  
Use `"300"` to test for the string.

#### NEW QUESTION 79

DRAG DROP

You are developing an application for an online retailer. The company ships only to certain countries.  
The application must:  
Store a list of country codes in an array  
Validate the country code of the shipping address against the countries array  
Include a Boolean value in the array that indicates whether or not you can ship to the country  
Display a list of countries that can be shipped to if the user inputs a code for a country that the retailer cannot ship to  
You need to develop the application to meet the requirements.  
Which code segment or segments should you use? (To answer, drag the appropriate code segment or segments from the list of code segments to the correct location or locations in the work area)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

\* `!arr[ctry]` is true when the array element is false.  
\* The `for..in` statement iterates over the enumerable properties of an object, in arbitrary order. For each distinct property, statements can be executed.  
Incorrect: Not:

```
for (var i; i < arr.length(); i++)  
    if (arr[i]) txt += i + " ";
```

Would work fine if `var i;` would be replaced by `i=0;`  
Reference: JavaScript Arrays; The `for..in` statement

#### NEW QUESTION 82

DRAG DROP

You are developing an airline reservation website by using HTML5 and JavaScript. A page on the site allows users to enter departure and destination airport information and to search for tickets.  
You have the following requirements:  
Users must be able to save information in the application about their favorite destination airport.  
The airport information must be displayed in the destination text box whenever the user returns to the page.  
You need to develop the site to meet the requirements.  
Which line or lines of code should you use? (To answer, drag the appropriate command or commands from the list of commands to the correct location or locations in the work area)

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

\* `retrieve localStorage.destination`  
\* `store localStorage.destination`

#### NEW QUESTION 86

You are modifying a blog site to improve search engine readability.  
You need to group relevant page content together to maximize search engine readability. Which tag should you use?

- A. `<nav>`
- B. `<article>`
- C. `<span>`
- D. `<div>`

**Answer:** B

#### Explanation:

The <article> tag specifies independent, self-contained content.

An article should make sense on its own and it should be possible to distribute it independently from the rest of the site.

Potential sources for the <article> element: Forum post

Blog post News story Comment

Reference: HTML <article> Tag [http://www.w3schools.com/tags/tag\\_article.asp](http://www.w3schools.com/tags/tag_article.asp) [http://www.w3schools.com/html/html5\\_new\\_elements.asp](http://www.w3schools.com/html/html5_new_elements.asp)

#### NEW QUESTION 89

You are developing application web form by using HTML5 and JavaScript. You need to prevent users from submitting form data more than once. Which code segment should you use?

- ☐ A. 

```
<body>
  <input id="btnSubmit" type="button" value="Submit" onclick="disable(this)" />
  <input id="btnCancel" type="button" value="Submit" onclick="disable(this)" />
  <script>
    function disable(ctrl) {
      ctrl.disabled = true;
    }
  </script>
</body>
```
- ☐ B. 

```
<body>
  <input id="btnSubmit" type="button" value="Submit" onclick="disable()" />
  <input id="btnCancel" type="button" value="Submit" onclick="disable()" />
  <script>
    function disable() {
      this.disabled = true;
    }
  </script>
</body>
```
- ☐ C. 

```
<body>
  <input id="btnSubmit" type="button" value="Submit" onclick="disable()" />
  <input id="btnCancel" type="button" value="Submit" onclick="disable()" />
  <script>
    function disable() {
      document.getElementById("btn" + this.name).disabled = true;
    }
  </script>
</body>
```
- ☐ D. 

```
<body>
  <input id="btnSubmit" type="button" value="Submit" onclick="disable(me)" />
  <input id="btnCancel" type="button" value="Submit" onclick="disable(me)" />
  <script>
    function disable(ctrl) {
      ctrl.disabled = true;
    }
  </script>
</body>
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** A

#### Explanation:

\* this, in disable(this), refers to the clicked button.

\* The disabled attribute is a boolean attribute.

When present, it specifies that the <input> element should be disabled. A disabled input element is unusable and un-clickable.

The disabled attribute can be set to keep a user from using the <input> element until some other condition has been met (like selecting a checkbox, etc.). Then, a JavaScript could remove the disabled value, and make the <input> element usable.

Reference: HTML <input> disabled Attribute

#### NEW QUESTION 90

You are modifying a website. The body of the page will be divided into two sections: A content section will contain blog posts and comments.

An area on the right-hand side will contain advertisements. The page is defined by the following HTML.



```
<table width="100%" border="1">
  <tr>
    <td class="header" colspan="2">
      Welcome to My Blog!
    </td>
  </tr>
  <tr>
    <td width="70%">
      ...
    </td>
    <td width="30%">
      ...
    </td>
  </tr>
  <tr>
    <td class="footer" colspan="2">
      ...
    </td>
  </tr>
</table>
```

The site must conform to HTML5 standards and must use HTML5 semantic tags.

You need to ensure that the advertisements are on the rightmost section of the page. Which tag should you use?

- A. <aside>
- B. <div>
- C. <article>
- D. <footer>

**Answer:** A

**Explanation:**

The <aside> tag defines some content aside from the content it is placed in. The aside content should be related to the surrounding content. aside is now acceptable for secondary content when not nested within an article element. Reference: HTML <aside> Tag

**NEW QUESTION 91**

You are developing an HTML5 page.

You need to add author and copyright information. Which tag should you use?

- A. <aside>
- B. <header>
- C. <footer>
- D. <section>

**Answer:** C

**Explanation:**

The footer element represents a footer for its nearest ancestor sectioning content or sectioning root element. A footer typically contains information about its section such as who wrote it, links to related documents, copyright data, and the like.

Reference: The footer element

<http://dev.w3.org/html5/spec-preview/the-footer-element.html>

**NEW QUESTION 96**

You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability. Which tag should you use?

- A. <article>
- B. <table>
- C. <div>
- D. <span>

**Answer:** A

**Explanation:**

The <article> tag specifies independent, self-contained content.

An article should make sense on its own and it should be possible to distribute it independently from the rest of the site.

Potential sources for the <article> element: Forum post

Blog post News story Comment

**NEW QUESTION 98**

You are developing an HTML5 page that has an element with an ID of picture. The page includes the following HTML.



```
<div>
  Picture:<br />
  <div id = "picture">
  </div>
</div>
```

You need to move the picture element lower on the page by five pixels.

Which two lines of code should you use? (Each correct answer presents part of the solution. Choose two.)

- A. document.getElementById("picture").style.position = "relative";
- B. document.getElementById("picture").style.top = "5px";
- C. document.getEiementById("picture").style.top = "-5px";
- D. document.getElementById("picture").style.position = "absolute";

**Answer:** AB

**Explanation:**

We use relative position to move the position 5 pixels lower on page. Using a negative value would move the picture higher on the page. Note:

\* The top property sets or returns the top position of a positioned element.

This property specifies the top position of the element including padding, scrollbar, border and margin.

Syntax

Set the top property: Object.style.top="auto|length|%|inherit" Where:

Length defines the top position in length units. Negative values are allowed

**NEW QUESTION 102**

You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability. Which tag should you use?

- A. <section>
- B. <tbody>
- C. <div>
- D. <table>

**Answer:** A

**Explanation:**

The <section> tag defines sections in a document. Such as chapters, headers, footers, or any other sections of the document.

**NEW QUESTION 107**

You are developing a customer web form that includes the following HTML.

```
<input id="txtValue"/>
```

You need to change the HTML markup so that customers can enter only a valid three-letter country code.

Which HTML should you use?

- A. <input id="txtValue" type="country"/>
- B. <input id="txtValue" type="text" required="xxx"/>
- C. <input id="txtVa!ue" type="text" pattern="[A-Za-z]{3}" />
- D. <input id="txtValuen type="code" pattern="country"/>

**Answer:** C

**Explanation:**

HTML <input> pattern Attribute

The pattern attribute specifies a regular expression that the <input> element's value is checked against.

Example

An HTML form with an input field that can contain only three letters (no numbers or special characters):

```
<form action="demo_form.asp">
```

```
Country code: <input type="text" name="country_code" pattern="[A-Za-z]{3}" title="Three letter country code">
```

```
<input type="submit">
```

```
</form>
```

Reference: HTML <input> pattern Attribute [http://www.w3schools.com/tags/att\\_input\\_pattern.asp](http://www.w3schools.com/tags/att_input_pattern.asp)

**NEW QUESTION 110**

You are developing an HTML5 web application and are styling text. You need to use the text-transform CSS property.

Which value is valid for the text-transform property?

- A. Capitalize
- B. Hidden
- C. Italic
- D. Line-through

**Answer:** A

**Explanation:**

CSS Syntax

text-transform: none|capitalize|uppercase|lowercase|initial|inherit; Example

Transform text in different elements: h1 {text-transform:uppercase;}

h2 {text-transform:capitalize;} p {text-transform:lowercase;}

Reference: CSS text-transform Property  
[http://www.w3schools.com/cssref/pr\\_text\\_text-transform.asp](http://www.w3schools.com/cssref/pr_text_text-transform.asp)

#### NEW QUESTION 115

You are developing an HTML5 web application and are styling text. You need to use the text-transform CSS property. Which value is valid for the text-transform property?

- A. Italic
- B. Line-through
- C. Capitalize
- D. 20px

**Answer:** C

#### Explanation:

CSS Syntax

text-transform: none|capitalize|uppercase|lowercase|initial|inherit; Example

Transform text in different elements: h1 {text-transform:uppercase;}

h2 {text-transform:capitalize;} p {text-transform:lowercase;}

Reference: CSS text-transform Property [http://www.w3schools.com/cssref/pr\\_text\\_text-transform.asp](http://www.w3schools.com/cssref/pr_text_text-transform.asp)

#### NEW QUESTION 120

You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability. Which tag should you use?

- A. <tbody>
- B. <article>
- C. <div>
- D. <span>

**Answer:** B

#### Explanation:

The <article> tag specifies independent, self-contained content.

An article should make sense on its own and it should be possible to distribute it independently from the rest of the site.

Potential sources for the <article> element: Forum post

Blog post

News story Comment

#### NEW QUESTION 125

You are modifying a blog site to improve search engine readability.

You need to group relevant page content together to maximize search engine readability. Which tag should you use?

- A. <span>
- B. <nav>
- C. <cabl>
- D. <section>

**Answer:** D

#### Explanation:

The <section> tag defines sections in a document. Such as chapters, headers, footers, or any other sections of the document.

#### NEW QUESTION 127

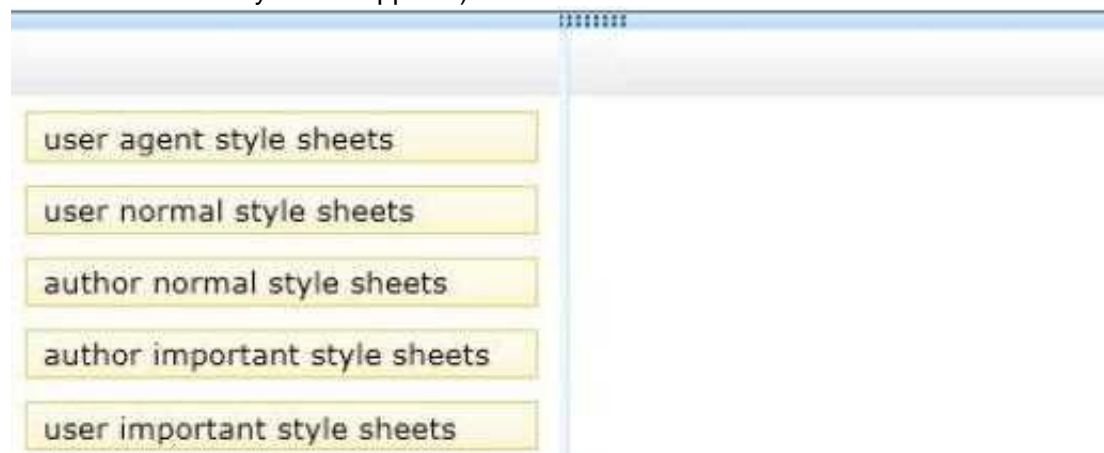
DRAG DROP

You are creating an application by using HTML5 and CSS3. The styles for the pages are derived from five style sheets.

The styles are not being applied correctly to the pages in the application.

You need to determine the order in which the style sheets will be applied by the browser.

In which order will the five style sheets be applied? (To answer, move the style sheet types from the list of style sheet types to the answer area and arrange them in the order that they will be applied.)



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Box 1: user agent style sheets Box 2: user normal style sheets  
Box 3 author normal style sheets: Box 4: author important style sheets Box 5: user important style sheets Note:  
The order of declarations from least important to most important:  
user agent declarations user normal declarations author normal declarations  
author important declarations user important declarations

NEW QUESTION 130

You are developing an HTML5 web application and are styling text. You need to use the text-transform CSS property. Which value is valid for the text-transform property?

- A. Italic
- B. Red
- C. Capitalize
- D. Line-through

Answer: C

Explanation:

CSS Syntax  
text-transform: none|capitalize|uppercase|lowercase|initial|inherit; Example  
Transform text in different elements: h1 {text-transform:uppercase;}  
h2 {text-transform:capitalize;} p {text-transform:lowercase;}  
Reference: CSS text-transform Property [http://www.w3schools.com/cssref/pr\\_text\\_text-transform.asp](http://www.w3schools.com/cssref/pr_text_text-transform.asp)

NEW QUESTION 132

HOTSPOT

You are reviewing the CSS markup for an HTML5 page that displays a news article. The CSS markup for the page is as follows:

```
h4 {
    color: powderblue;
}
.headline {
    color: red;
}
article {
    color: black;
    font-style: normal;
}
aside h4 {
    font-style: italic !important;
    color: yellow;
}
article h4 {
    font-style: normal;
    color: sienna;
}
```

The HTML markup for the page is as follows:

```
<div>
  <h4>International News</h4>
  <article>
    <h4 class="headline">New Developments!</h4>
    <aside>
      <h4>Impact On Markets</h4>
    </aside>
  </article>
</div>
```

For each statement in the table, select Yes if the code segments above causes the page to behave as described. Select No if it does not. Make only one selection in each column.

Yes	No	Description of Behavior
<input type="radio"/>	<input type="radio"/>	The color of the <b>International News</b> header is red.
<input type="radio"/>	<input type="radio"/>	The color of the <b>New Developments!</b> header is black.
<input type="radio"/>	<input type="radio"/>	The color of the <b>Impact On Markets</b> header is yellow.
<input type="radio"/>	<input type="radio"/>	The text of the <b>Impact On Markets</b> header is italicized.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



Yes	No	Description of Behavior
<input type="radio"/>	<input checked="" type="radio"/>	The color of the <b>International News</b> header is red.
<input type="radio"/>	<input checked="" type="radio"/>	The color of the <b>New Developments!</b> header is black.
<input type="radio"/>	<input checked="" type="radio"/>	The color of the <b>Impact On Markets</b> header is yellow.
<input checked="" type="radio"/>	<input type="radio"/>	The text of the <b>Impact On Markets</b> header is italicized.

#### NEW QUESTION 137

##### HOTSPOT

You review code that uses WebSockets for a browser-based multiplayer game. Each player sends a move to the server, which then sends the move to all connected game instances. The following code runs in the browser and handles the sending and receiving of moves:

```
var moveList = new Array();
var myMoves = {};

var server = new WebSocket('ws://gameserver.proseware.com/');
server.onmessage = function(message) {
    if (myMoves[message.data.id] == undefined)
        moveList.push(message.data);
};

server.onopen = function() {
    server.send(getUserName());
};

function sendMove() {
    var nextMove = getMove();
    myMoves[nextMove.id] = nextMove;
    server.send(nextMove);
}
```

For each statement in the table, select Yes if the code segment above causes the page to behave as described. Select No if it does not. Make only one selection in each column.

Yes	No	Description of Behavior
<input type="radio"/>	<input type="radio"/>	The moves are added to the moveList array in the order in which they were played.
<input type="radio"/>	<input type="radio"/>	The username is sent to the server before any moves are sent or received.
<input type="radio"/>	<input type="radio"/>	The player's own moves will be added to the moveList array.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Yes	No	Description of Behavior
<input checked="" type="radio"/>	<input type="radio"/>	The moves are added to the moveList array in the order in which they were played.
<input checked="" type="radio"/>	<input type="radio"/>	The username is sent to the server before any moves are sent or received.
<input type="radio"/>	<input checked="" type="radio"/>	The player's own moves will be added to the moveList array.



### NEW QUESTION 138

You develop a webpage.

The webpage must display a grid that contains one row and five columns. Columns one, three, and five are the same width. Columns two and four are the same width, but much wider than columns one, three, and five. The grid resembles the following image:

--	--	--	--	--

The grid must meet the following requirements:

Each row must be tall enough to ensure that images are not cut off. Each row must contain five columns.

The width of the columns must not change when the screen is resized or rotated. You need to define the style for the grid. Which CSS3 style should you use?

- ☐ A. 

```
<style type="text/css">
#grid {
  display: -ms-grid;
  -ms-grid-columns: 2fr (3fr 2fr) [2];
  -ms-grid-rows: auto;
}
</style>
```
- ☐ B. 

```
<style type="text/css">
#grid {
  display: -ms-grid;
  -ms-grid-columns: 100px (250px 100px) [2];
  -ms-grid-rows: min-content;
}
</style>
```
- ☐ C. 

```
<style type="text/css">
#grid {
  display: -ms-grid;
  -ms-grid-columns: 100px 250px 100px 250px 100px;
  -ms-grid-rows: auto;
}
</style>
```
- ☐ D. 

```
<style type="text/css">
#grid {
  display: -ms-grid;
  -ms-grid-columns: 100px 250px 100px 250px 100px;
  -ms-grid-rows: min-content;
}
</style>
```

- A. Option A  
 B. Option B  
 C. Option C  
 D. Option D

**Answer: C**

#### Explanation:

\* -ms-grid-rows property auto

The height of a row is computed based on the tallest child element in that column. Incorrect:

Not A: The width of the columns must not change when the screen is resized or rotated.

Not B, Not D: -ms-grid-rows property min-content

The minimum height of any child elements is used as the height of the row.

Note:

\* width

The width of each column specified as one of the following values:

A length consisting of an integer number, followed by an absolute units designator ("cm", "mm", "in", "pt", or "pc") or a relative units designator ("em", "ex", or "px").

A percentage of the object width.

A proportion of the remaining horizontal space (that is, the object width, less the combined widths of other tracks), consisting of an integer number followed by a fractional designator ("fr"). For example, if "200px 1fr 2fr" is specified, the first column is allocated 200 pixels, and the second and third columns are allocated 1/3 and 2/3 of the remaining width, respectively.

## NEW QUESTION 142

You implement an application by using HTML5 and JavaScript. You create a webpage that contains the following HTML:

```
<!DOCTYPE html>
<html>
<head>
  <link href="site.css" rel="stylesheet" type="text/css" />
  <script type="text/javascript" src="jquery.js"></script>
</head>
<body>
  <div id="container">
    <ul>
      <li>First List Item
        <ul>
          <li>Child List Item</li>
        </ul>
      </li>
      <li>Second List Item</li>
      <li>Third List Item</li>
      <li>Fourth List Item</li>
    </ul>
    <p>Some interesting information that we need to display.</p>
    <p>More information that is important to this page.</p>
  </div>
</body>
</html>
```

The application must place a border on only the first UL element that is contained in the DIV element. You need to update the webpage. What should you do?

☐ A. Add the following SCRIPT element after the DIV element:

```
<script>
  $("div").each(function () {
    $("ul").each(function (index, domEle) {
      $(domEle).css("border", "1px solid black");
    });
  });
</script>
```

☐ B. Add the following SCRIPT element after the DIV element:

```
<script>
  $("div#container > ul").css("border", "1px solid black");
</script>
```

☐ C. Add the following SCRIPT element after the DIV element:

```
<script>
  $("ul:first-of-type").css("border", "1px solid black");
</script>
```

☐ D. Add the following style to the site.css file:

```
.container > ul {
  border: 1px solid black;
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

**Explanation:**

Example: CSS File: ul {  
border: 1px solid black;  
}

Inline CSS:

<ul class="container" style="border: 1px solid black">

**NEW QUESTION 146**

You troubleshoot a webpage that contains the following HTML element:

<canvas id= "clickCanvas" width="300"> height= "300">

Your browser does not support the HTML5 canvas.</canvas>

The following JavaScript code is included in a script tag in the HEAD section of the webpage: (Line numbers are included for reference only.)

```
01 var canvas;  
02 var context;  
03 window.onload = function initialize() {  
04     canvas = document.getElementById('clickCanvas');  
05     context = canvas.getContext('2d');  
06     drawBox();  
07  
08 }  
09 function clickReporter(e) {  
10     alert('clicked');  
11 }  
12 function drawBox() {  
13     context.fillStyle = 'black';  
14     context.strokeRect(20, 20, canvas.width - 20, canvas.height - 20);  
15 }
```

You need to invoke the clickReporter() JavaScript function when a user clicks the mouse on the canvas HTML element. What should you do?

- A. Add the following attribute to the canvas HTML element: clicked= "clickReporter()"
- B. Replace the code segment at line 06 with the following code segment: drawBox.Click += clickReporter;
- C. Insert the following code segment at line 07: canvas.onclick = clickReporter;
- D. Insert the following code segment at line 07: canvas, click = clickReporter;

**Answer:** A

**NEW QUESTION 147**

You create an application that sends information to a web service by using the following code: (Line numbers are included for reference only.)

```
01 function CustomError(code) {  
02     this.errorCode = code;  
03 }  
04  
05 var code = send();  
06 if (code != 0) {  
07     throw new CustomError(code);  
08 }
```

When the web service returns a non-zero result code, you must raise an exception that contains the result code.

You need to implement the code that generates the exception. Which line of code should you insert at line 04?

- A. CustomError.prototype = Error.prototype;
- B. CustomError ["ErrorType"] = Error;
- C. CustomError.customError = true;
- D. Error-constructor = CustomError;

**Answer:** A

**Explanation:**

\* Object.prototype.constructor

Returns a reference to the Object function that created the instance's prototype. Note that the value of this property is a reference to the function itself, not a string containing the function's name. The value is only read-only for primitive values such as 1, true and "test".

\* The constructor property is created together with the function as a single property of func.prototype.

Reference: Object.prototype.constructor

**NEW QUESTION 148**

DRAG DROP

You develop an HTML5 webpage. You have the following HTML markup:

```
<ul id="languages">  
    <li>HTML</li>  
    <li>JavaScript</li>  
    <li>Classic ASP</li>  
    <li>ASP.Net</li>  
</ul>
```

You also have the following JavaScript variable defined: var languages = [];

You need to add statements to an existing JavaScript function to sort the list items.



Which four actions should you perform in sequence? (Develop the solution by selecting the required code segments and arranging them in the correct order.)

	Answer Area
<code>languages = \$.makeArray(items);</code>	
<code>languages.sort (function (s) { return s.innerHTML; });</code>	
<code>for (var i = 0, l = items.length; i &lt; l; i+ +) items[i].innerHTML = languages[i];</code>	
<code>for (var i = 0, l = items.length; i &lt; l; i+ +) languages.push(items[i].innerHTML);</code>	
<code>var items = document.getElementsByTagName ("li");</code>	
<code>items = \$.makeArray(languages);</code>	
<code>languages.sort();</code>	
<code>\$(languages).appendTo("#languages");</code>	

- A. Mastered  
B. Not Mastered

**Answer:** A

**Explanation:**

Box 1:

```
var items = document.getElementsByTagName  
("li");
```

Box 2:

```
for (var i = 0, l = items.length; i < l; i+  
+)  
languages.push(items[i].innerHTML);
```

Box 3:

```
languages.sort();
```

Box 4:

```
for (var i = 0, l = items.length; i < l; i+  
+)  
items[i].innerHTML = languages[i];
```

Note:

\* `getElementsByTagName`

The `getElementsByTagName()` method accesses all elements with the specified tagname.

\* Example:

```
// Get the list items and setup an array for sorting var lis = ul.getElementsByTagName("li");  
var vals = [];  
// Populate the array  
for(var i = 0, l = lis.length; i < l; i++) vals.push(lis[i].innerHTML);  
// Sort it vals.sort();  
// Sometimes you gotta DESC if(sortDescending) vals.reverse();  
// Change the list on the page for(var i = 0, l = lis.length; i < l; i++) lis[i].innerHTML = vals[i];  
}
```

**NEW QUESTION 150**

DRAG DROP

You have the following code:

```

01 $(document).ready(function () {
02     $('#submit').click(function () {
03         $.getJSON({
04             url: "url/GetImage",
05             success: function (result) {
06                 var personImage = new PersonImage(result);
07                 $('#happy').html(personImage.img);
08             }
09         });
10     });
11 });
12 function PersonImage(image) {
13
14 }

```

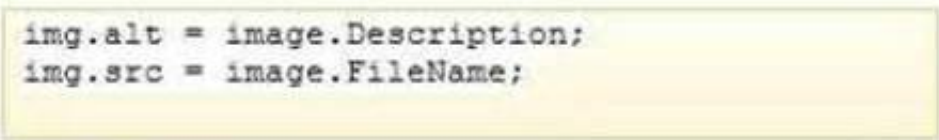


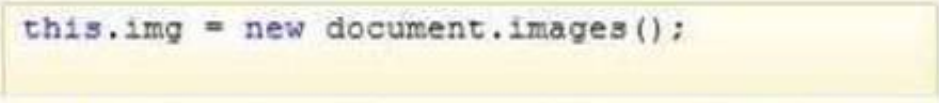
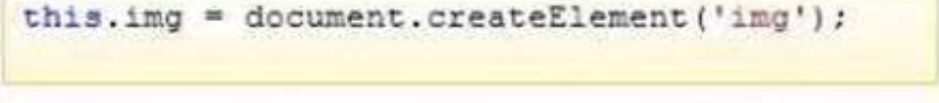
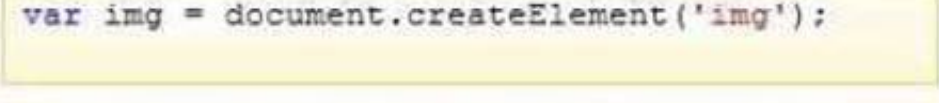
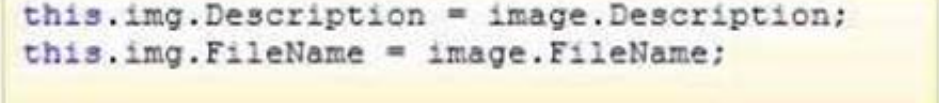
The web service returns a JSON object that contains two properties named Description and FileName.

The PersonImage object must meet the following requirements: Create an object that represents an image that will be displayed.

Set the image properties from the values that are returned by the web service. Expose the image as a property of the PersonImage object.

You need to insert code at line 13 to complete the implementation of the PersonImage object.

Which three actions should you perform in sequence to complete the implementation? (Develop the solution by selecting the required code segments and arranging them in the correct order.)

	Answer Area
	
	
	
	
	
	
	
	

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Box 1: var img = document.createElement('img'); Box 2: img.alt = image.Description;  
img src = image.FileName; Box 3: return this.img; Note:

\* Image Object

The Image object represents an embedded image.

For each <img> tag in an HTML document, an Image object is created.

Notice that images are not technically inserted into an HTML page, images are linked to HTML pages. The <img> tag creates a holding space for the referenced image.

\* Image Object Properties include

alt, Sets or returns the value of the alt attribute of an image src, Sets or returns the value of the src attribute of an image

#### NEW QUESTION 151

##### HOTSPOT

You develop an HTML5 application that allows images to be dragged and dropped within a webpage. The webpage contains a DIV element and four IMG elements as defined in the code segment below:

```
<div ondrop="myApp.drop(this, event)" ondragenter="return false" ondragover="return false">
  <p>Fruit</p>
</div>
<p>
  
  
  
  
</p>
```

You need to enable drag and drop for the application.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
var myApp = {};
(function () {
  this.drag = function (target, e) {
    
  };

  this.drop = function (target, e) {
    

    target.appendChild(document.getElementById(id));
    e.preventDefault();
  }
}).apply(myApp);

var myApp = {};
(function () {
  this.drag = function (target, e) {
    
    e.dataTransfer.getData('text');
    e.dataTransfer.dropEffect = 'copy';
    e.dataTransfer.effectAllowed = 'all';
    e.dataTransfer.setData('text', target.id);
  };

  this.drop = function (target, e) {
    
    e.dataTransfer.clearData();
    e.dataTransfer.types.contains('img');
    var id = e.dataTransfer.getData('text');
    var id = e.dataTransfer.setData('text', target.id);

    target.appendChild(document.getElementById(id));
    e.preventDefault();
  }
}).apply(myApp);
```

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

\* setData method (dataTransfer)

Specifies the data and its format for the current drag-and-drop operation.

\* getData method (dataTransfer)

Retrieves the specified formatted data from the current drag-and-drop operation.

#### NEW QUESTION 154

##### DRAG DROP

You are developing an application for a retail store. The application will be used on mobile devices to provide real-time directions to the store.

You have the following requirements:

The application must find out a user's location.

As the user moves, the application must update the screen with the new location. As the user moves, the application must display the user's speed.

You need to develop the application to meet the requirements.

Which code segment or segments should you use? (To answer, drag the appropriate code segment or



segments to the correct location in the work are

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\* geolocation.watchPosition

watchPosition() - Returns the current position of the user and continues to return updated position as the user moves (like the GPS in a car).

\* position data include:

/ coords.speed

The speed in meters per second

/ coords.accuracy (incorrect answer) The accuracy of position

Etc.

\* The getCurrentPosition() (incorrect)

The getCurrentPosition() method returns an object if it is successful. The latitude, longitude and accuracy properties are always returned. The other properties below are returned if available. Reference: HTML5 Geolocation

**NEW QUESTION 157**

**HOTSPOT**

You develop a webpage. You create the following HTML markup:

```
<!DOCTYPE html>
<html>
  <head>
    <style></style>
  </head>
  <body>
    <div id="top"></div>
    <div id="content">
      <div id="left"></div>
      <div id="main"></div>
      <div id="right"></div>
    </div>
    <div id="bottom"></div>
  </body>
</html>
```

<!DOCTYPE html>

<html>

<head>

<style></style>

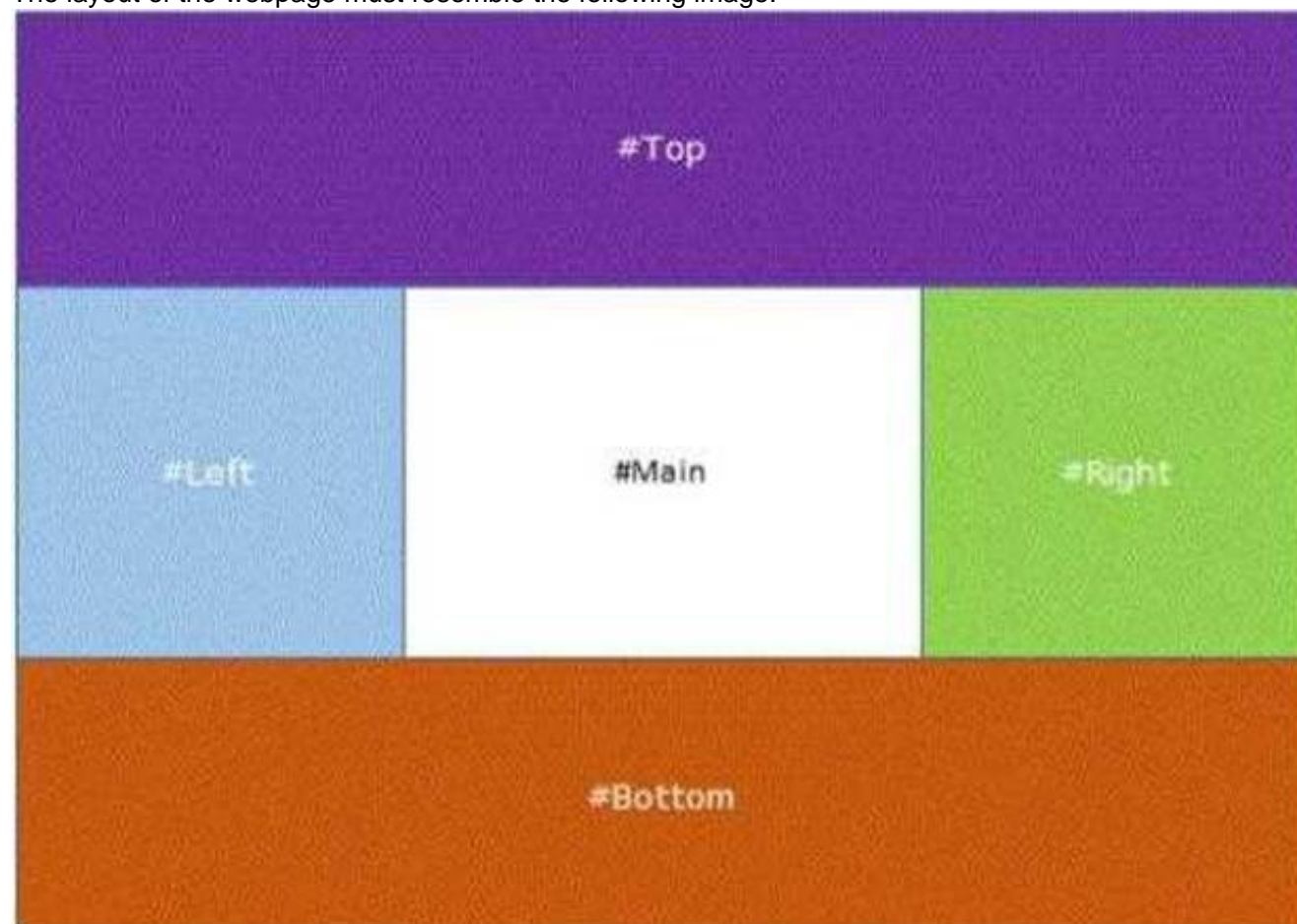
</head>

<body>

<div id="top">

The layout of the webpage must contain three rows. The first row spans the entire width of the page and is labeled #Top. The second row contains three columns. The first column is labeled #Left; the second column is labeled #Main; and the right column is labeled #Right. The #Left and #Right columns are a fixed width. The #Main column occupies the remaining available space. The third and final row spans the entire width of the page and is labeled #Bottom.

The layout of the webpage must resemble the following image:



You need to create the CSS styles to implement the layout.

How should you complete the relevant styles? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
#top {width: 100%; height: 200px;}
```

```
#content {display: 

width: 100%;
}
```

```
#content #left {width: 200px; height: 300px;}
#content #right {width: 200px; height: 300px;}
```

```
#content #main {}
```

```
#bottom {width: 100%; height: 200px;}
#top {width: 100%; height: 200px;}
```

```
#content {display: 

-ms-flex;
-ms-flexbox;
box-flex-group;

-ms-flex-flow: row;
-ms-flex-flow: wrap;
-ms-flex-direction: row;
-ms-flex-direction: wrap;
width: 100%;
}
```

```
#content #left {width: 200px; height: 300px;}
#content #right {width: 200px; height: 300px;}
```

```
#content #main {

-ms-flex: 0;
-ms-flex: 1;
}
```

```
#bottom {width: 100%; height: 200px;}
```

- A. Mastered
- B. Not Mastered

Answer: A

#### Explanation:

\* -ms-flexbox

To enable flexbox layout, you must first create a flexbox container. Do this by setting the display property of an element to either "-ms-flexbox" (for a block-level flexbox container) or "-ms-inline-flexbox" (for an inline flexbox container).

\* -ms-flex-direction: row;

When creating a flexbox container, you can also set its orientation—that is, specify whether its children are displayed from right-to-left, left-to-right, top-to-bottom, or bottom-to-top.

\* -ms-flex

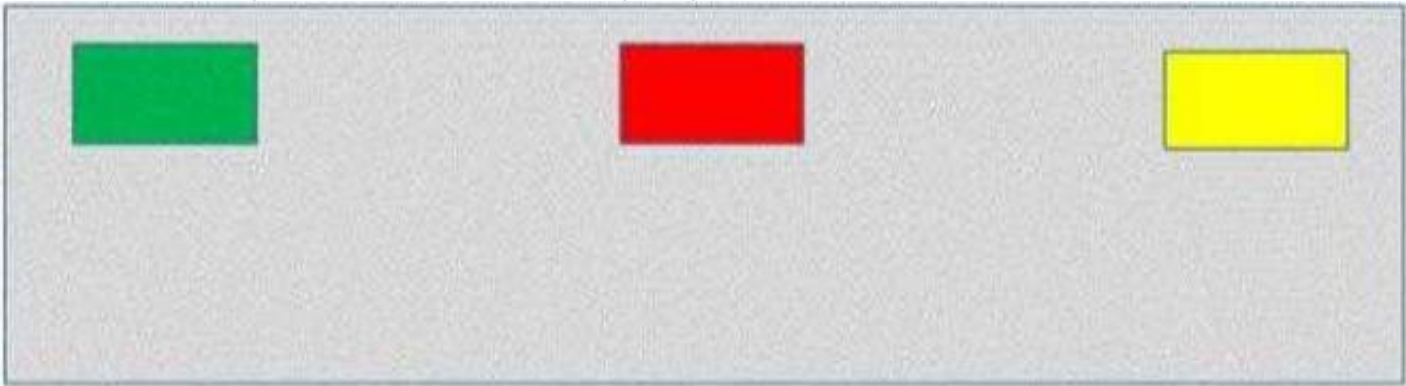
Specifies whether the width or height of a child element is flexible based on the space available in the object. This value also indicates the proportion of space

available that is allocated to the child element.  
 Reference: Flexible box ("Flexbox") layout in Internet Explorer 10

**NEW QUESTION 162**

**HOTSPOT**

You are developing a web page.  
 The webpage must display a container. The container must display three colored rectangles near the top of the container. The colored rectangles are, in order, green, red, and yellow. The rectangles are aligned horizontally and evenly spaced across the width of the container.  
 The layout of the page must resemble the following image:



You need to ensure that the page renders properly.  
 How should you complete the relevant styles? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<style>
    .box {
        display: -ms-flexbox;
        -ms-flex-direction: row;

        -ms-flex-align: ;

        -ms-flex-pack: ;

        width: 550px;
        height: 400px;
    }
</style>
<style>
    .box {
        display: -ms-flexbox;
        -ms-flex-direction: row;

        -ms-flex-align: ;

        -ms-flex-pack: ;

        width: 550px;
        height: 400px;
    }
</style>
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\* -ms-flex-align  
 center: The flexbox item's margin box is centered in the cross axis within the line.  
 \* -ms-flex-pack  
 The 'flex-pack' property defines the flexibility of these packing spaces. Reference: CSS property '-ms-flex-align'; CSS property '-ms-flex-pack'

**NEW QUESTION 164**



An HTML page contains no embedded JavaScript or CSS code. The body of the page contains only the following line of code.

```
<p id="test">test</p>
```

A CSS style sheet must be applied dynamically. The style must visibly change the appearance of the paragraph on the page.

You need to apply a style the paragraph. Which line of code should you use?

- A. document.getElementById("test").style.border = "0";
- B. document.getElementById("test").style.position = "static";
- C. document.getElementById ("test").style.padding = "15px";
- D. document.getElementById("test").style.top = "5px";

**Answer:** A

**Explanation:**

The border shorthand property sets all the border properties in one declaration.

The properties that can be set, are (in order): border-width, border-style, and border-color.

It does not matter if one of the values above are missing, e.g. border:solid #ff0000; is allowed. Reference: Style border Property

**NEW QUESTION 168**

You develop an HTML5 application that allows users to upload files from their local computers. The user interface must remain responsive during the upload.

You need to implement the file upload functionality for the application.

Which two actions should you perform? (Each correct answer presents a complete solution. Choose two.)

- A. Use an HTML form with a file type INPUT element that targets a hidden IFRAME element.
- B. Use a file type INPUT element, and then use the Web Storage API to upload the file.
- C. Use a FormData object and upload the file by using XMLHttpRequest.
- D. Register the file protocol by using protocol handler registration API and then upload the file by using XMLHttpRequest.
- E. Use the FileSystem API to load the file, and then use the jQuery post method to upload the file to the server.

**Answer:** BD

**Explanation:**

B: Example (notice the web storage api upload.aspx):

```
<!DOCTYPE html>
<html>
<head>
<title>Upload Files using XMLHttpRequest - Minimal</title>
</head>
<body>
<form id="form1" enctype="multipart/form-data" method="post" action="Upload.aspx">
<div class="row">
<label for="fileToUpload">Select a File to Upload</label><br />
<input type="file" name="fileToUpload" id="fileToUpload" onchange="fileSelected();"/>
</div>
<div id="fileName"></div>
<div id="fileSize"></div>
<div id="fileType"></div>
<div class="row">
<input type="button" onclick="uploadFile()" value="Upload" />
</div>
<div id="progressNumber"></div>
</form>
</body>
</html>
```

D:

\* Because we're using XMLHttpRequest, the uploading is happening in the background. The page the user is on remains intact. Which is a nice feature to have if your business process can work with it.

\* The XMLHttpRequest object has gotten a facelift in the Html5 specifications. Specifically the XMLHttpRequest Level 2 specification (currently the latest version) that has included the following new features:

Handling of byte streams such as File, Blob and FormData objects for uploading and downloading Progress events during uploading and downloading

Cross-origin requests

Allow making anonymous request - that is not send HTTP Referer The ability to set a Timeout for the Request

**NEW QUESTION 172**

You are developing a web application that can function when users are not connected to the Internet.

You need to check the Internet connectivity status of a user's browser. Which method should you use?

☐ A. 

```
function checkConnection()
{
    if (navigator.isOnline) {
        ...
    }
}
```

☐ B. 

```
function checkConnection()
{
    if (browser.isOnline) {
        ...
    }
    else
    {
        ...
    }
}
```

☐ C. 

```
function checkConnection()
{
    if (browser.online) {
        ...
    }
    else
    {
        ...
    }
}
```

☐ D. 

```
function checkConnection()
{
    if (navigator.online) {
        ...
    }
    else
    {
        ...
    }
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

**Explanation:**

Navigator onLine Property

The onLine property returns a Boolean value that specifies whether the browser is in online or offline mode. Example

Find out whether the browser is online:

var x = "Is the browser online? " + navigator.onLine; The result of x will be:

Is the browser online? true Reference: Navigator onLine Property

**NEW QUESTION 175**

**HOTSPOT**

You develop an HTML5 webpage that contains the following markup and code:

```
<form>
  <label for='city'>City:</label>
  <select id='city'>
    <option>Please Choose</option>
    <option>Moscow</option>
    <option>London</option>
    <option>Paris</option>
  </select>
  <input type='button' id='submit' value='Submit'
    onclick="madeSelection(document.getElementById('city'), 'Please Select A City')" />
</form>
```

You have the following requirements:

Display a message if users select the first OPTION element, and then submit the form.

Do not display an alert message if users select any other OPTION element, and then submit the form.

You need to implement the madeSelection() function.

How should you complete the relevant code? (To answer, select the appropriate code segment from each drop-down list in the answer area.)

```
function madeSelection(element, message) {
  alert(message);
} else {
}
```

```
function madeSelection(element, message) {
  if (element.id === 0) {
    if (element.value == "-1") {
      if (element.text === "Please Choose") {
        if (element.value === "Please Choose") {
          alert(message);
          element.clear();
          element.focus();
          return true;
          return false;
        } else {
          return true;
          return false;
        }
      }
    }
  }
}
```

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

\* The <select> element is used to create a drop-down list.

The <option> tags inside the <select> element define the available options in the list.

\* option.value text

Specifies the value to be sent to a server Reference: HTML <option> Tag

## NEW QUESTION 177

HOTSPOT

You develop a webpage that consumes a web service. The web service provides currency exchange rates. Visitors enter the currency type on the webpage and press the Submit button.

The web service returns the current exchange rate.

You need to ensure that the webpage always displays the most current information.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)



```
<script type="text/javascript">
var currencyRate;
function getExchangeRate(){
$.| |({

cache:| |,

type: 'GET',
url: "CurrencyConverter.asmx/GetExchangeRate",
data: { 'currencyType': getCurrencyType() },
dataType: 'json',
success: function (result) {
currencyRate = result;
}
});
}

function getCurrencyType() {
return "USD";
}
</script>
```

```
<script type="text/javascript">
var currencyRate;
function getExchangeRate(){
$.| |({
ajax
json

cache:| |,
true
false

type: 'GET',
url: "CurrencyConverter.asmx/GetExchangeRate",
data: { 'currencyType': getCurrencyType() },
dataType: 'json',
success: function (result) {
currencyRate = result;
}
});
}

function getCurrencyType() {
return "USD";
}
</script>
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Use ajax technology (json is for the datatype).  
 Disable the cache as the most recent data must be displayed.

**NEW QUESTION 182**

**HOTSPOT**

You develop a webpage.

The layout of the webpage must resemble the following image:



You need to ensure that the page renders properly.

How should you complete the relevant CSS styles? (To answer, select the appropriate option from each drop-down list in the answer area.)

```
<!DOCTYPE html>
<head>
  <style>

    #span1 {  ; color: red;}

    #span2 {  ; top: 200px;

      left: -100px; height: 130px; width: 130px;
      color: green;}
  </style>
</head>
<body>
  <p>Start of main contents.
    <span id=span1> Start of span1 contents.
    <span id=span2> Span2 contents.</span>
    End of span1 contents.</span>
    End of main contents.
  </p>
</body>
</html>
```

```
<!DOCTYPE html>
<head>
<style>

#span1 {  ; color: red;}

z-index: 1
float: left
position: relative
position: absolute

#span2 {  ; top: 200px;

z-index: 2
float: right
position: relative
position: absolute

left: -100px; height: 130px; width: 130px;
color: green;}
</style>
</head>
<body>
<p>Start of main contents.
  <span id=span1> Start of span1 contents.
  <span id=span2> Span2 contents.</span>
  End of span1 contents.</span>
  End of main contents.
</p>
</body>
</html>
```

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

\* position: relative

The element is positioned relative to its normal position, so "left:20" adds 20 pixels to the element's LEFT position

\* position: absolute

The element is positioned relative to its first positioned (not static) ancestor element Reference: CSS position Property

**NEW QUESTION 185**

**HOTSPOT**

A company has an XML file named products.xml on a web server. The file contains a list of the products that the company sells.

You need to display the contents of the products.xml file in a DIV element named Output.

How should you complete the relevant code? (To answer, select the appropriate option from each drop-down list in the answer area.)



```
<html>
<head>
<script lang="JavaScript">
function DataHandler()
var webReq = new XMLHttpRequest; {

if (webReq.  ==  ) {

    if (webReq.status ==  ) {

        document.getElementById("Output").innerHTML =
            (webReq.responseText);}}
var webReq = getXMLHttpRequest();
if (webReq != null) {
    webReq.open
        ("GET", "http://localhost/products.xml", true);
    webReq.onreadystatechange = DataHandler;
    webReq.send();}

</script>
</head>
<body>
<div id="Output"> </div>
</body>
</html>
```

```
<html>
<head>
<script lang="JavaScript">
function DataHandler()
var webReq = new XMLHttpRequest; {

if (webReq.  ==  ) {
    

abort  
open  
status  
readyState



false  
true  
2  
3  
4


}

    if (webReq.status ==  ) {
        

100  
200  
400  
500



        document.getElementById("Output").innerHTML =
            (webReq.responseText);}}
var webReq = getXMLHttpRequest();
if (webReq != null) {
    webReq.open
        ("GET", "http://localhost/products.xml", true);
    webReq.onreadystatechange = DataHandler;
    webReq.send();}

</script>
</head>
<body>
<div id="Output"> </div>
</body>
</html>
```

- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

When readyState is 4 and status is 200, the response is ready:

Example xmlhttp.onreadystatechange=function()

```
{
if (xmlhttp.readyState==4 && xmlhttp.status==200)
{
document.getElementById("myDiv").innerHTML=xmlhttp.responseText;
}
}
```

Note:

\* readyState == 4

Holds the status of the XMLHttpRequest. Changes from 0 to 4: 0: request not initialized

1: server connection established 2: request received

3: processing request

4: request finished and response is ready

\* status==200 200: "OK"

404: Page not found

Reference: AJAX - The onreadystatechange Event

**NEW QUESTION 189**

You are developing an application that analyzes population data for major cities in the United States. The application retrieves population statistics for a city by using a web service.

You need to request data from the web service by using jQuery. Which code segment should you use?

- ☐ A. 

```
$.ajax({
    url: "Services/WSAjax.aspx/GetPopulationCity?city='Boston'",
    dataType: "text", type: "POST"
});
```
- ☐ B. 

```
$.ajax({
    url: "Services/WSAjax.aspx/GetPopulationCity",
    dataType: "text", type: "SEND", data: { city: "Boston" }
});
```
- ☐ C. 

```
$.ajax({
    url: "Services/WSAjax.aspx/GetPopulationCity?city='Boston'",
    dataType: "text", type: "SEND"
});
```
- ☐ D. 

```
$.ajax({
    url: "Services/WSAjax.aspx/GetPopulationCity",
    dataType: "text", type: "POST", data: { city: "Boston" }
});
```

A. Option A

B. Option B

C. Option C

D. Option D

**Answer: D**

**Explanation:**

\* type:

We post a SOAP request.

\* data:

Data to be sent to the server.

The data option can contain either a query string of the form key1=value1&key2=value2, or an object of the form {key1: 'value1', key2: 'value2'}.

Reference: jQuery.ajax()

**NEW QUESTION 193**

You develop a webpage that allows a user to download a JPEG image and convert it to a PNG file.

You need to implement the code to download the contents of the JPEG image with no additional decoding.

Which JavaScript function should you use?

A. readAsBinaryString()

B. readAsArrayBuffer()

C. readAsDataURL()

D. readAsText()

**Answer: B**

**Explanation:**

The readAsArrayBuffer method is used to read a File, Blob, MSSStream into memory as an ArrayBuffer object.

Reference: FileReader.readAsArrayBuffer

## NEW QUESTION 195

### DRAG DROP

You are developing a shared library to format information. The library contains a method named `_private`.

The `_private` method must never be called directly from outside of the shared library. You need to implement an API for the shared library.

How should you complete the relevant code? (Develop the solution by selecting the required code segments and arranging them in the correct order. You may not need all of the code segments.)

Answer Area

```
Formatter.prototype.parseValue =
function (input) {
    return _private(input);
}
```

```
prototype.parseValue = _private(input);
```

```
this._private = function (data) {
    return custom(data);
}
```

```
}
```

```
return {
    parseValue: function (input)
    { return _private(); }
}
```

```
function getFormatter() {
```

```
var _private = function (data) {
    return custom(data);
};
```

```
this.parseValue = function (input) {
    return _private(input);
};
```

```
$('#parseValue') = function (input) {
    return _private(input);
};
```

- A. Mastered  
 B. Not Mastered

**Answer:** A

### Explanation:

Box 1:

```
function getFormatter() {
```

Box 2:

```
Formatter.prototype.parseValue =
function (input) {
    return _private(input);
}
```

Box 3:

```
this._private = function (data) {
    return custom(data);
}
```

Box 4:

```
}
```

Note:

```
$('#parseValue') = function (input) {
    return _private(input);
};
```

\* Here there is a basic example:  
 // our constructor



```
function Person(name, age){ this.name = name; this.age = age;
};
// prototype assignment Person.prototype = (function(){
// we have a scope for private stuff
// created once and not for every instance function toString(){
return this.name + " is " + this.age;
};
// create the prototype and return them return {
// never forget the constructor ... constructor:Person,
// "magic" toString method toString:function(){
// call private toString method return toString.call(this);
}
};
})();
* Example:
You can simulate private methods like this: function Restaurant() {
}
Restaurant.prototype = (function() { var private_stuff = function() {
// Private code here
};
return { constructor:Restaurant, use_restroom:function() {
private_stuff();
}
};
})();
var r = new Restaurant();
// This will work: r.use_restroom();
// This will cause an error: r.private_stuff();
```

### NEW QUESTION 196

You develop an HTML application that contains a table that displays a list of products. The table is defined with the following HTML markup:

```
<table>
  <thead>
    <tr>
      <th>Product</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Adjustable Race</td>
    </tr>
    <tr>
      <td>Blade</td>
    </tr>
    <tr>
      <td>Chainring</td>
    </tr>
    <tr>
      <td>Down Tube</td>
    </tr>
  </tbody>
</table>
```

You must style the table to look like the following image:

Product
Adjustable Race
Blade
Chainring
Down Tube

You need to implement the CSS selectors to select the rows that must have a blue background. Which CSS selector should you use?

- A. `thead:only-child, tbody:after, table:before`
- B. `tr [line | -0, 1, 3]`
- C. `tr:first-of-type, tr:last-of-type`
- D. `tr:first-line, tr:last-child`

**Answer: B**

#### Explanation:

Header (line 0), first line and third line.

### NEW QUESTION 198

You develop a webpage by using HTML5. You create the following markup and code: (Line numbers are included for reference only.)

```
01 <head>
02   <script>
03     function removeInvalid(input) {
04
05     }
06   </script>
07 </head>
08 <body>
09   Given Name: <input type="text" id="GivenName" onblur="removeInvalid(this);" />
10   Surname: <input type="text" id="Surname" onblur="removeInvalid(this);" />
11 </body>
```

You need to ensure that the values that users enter are only numbers, letters, and underscores, regardless of the order. Which code segment should you insert at line 04?

- ☐ A. `if (!/^[A-Za-z0-9_]+$/.test(input.value))  
input.value = "Invalid";`
- ☐ B. `if (!/^[^A-Za-z0-9_]/.test(input.value))  
input.value = "Invalid";`
- ☐ C. `var regEx = new RegExp("^\\w");  
if (!input.value.match(regEx))  
input.value = "Invalid";`
- ☐ D. `var regEx = "[\\w\\d]";  
if (!input.value.match(regEx))  
input.value = "Invalid";`

- A. Option A  
 B. Option B  
 C. Option C  
 D. Option D

**Answer:** A

#### Explanation:

Example:

Sometimes situations arise when user should fill a single or more than one fields with alphabet characters (A-Z or a-z) in a HTML form. You can write a JavaScript form validation script to check whether the required field(s) in the HTML form contains only letters. –

Javascript function to check for all letters in a field view plainprint?

```
function allLetter(inputtxt)
{
var letters = /^[A-Za-z]+$/.test(inputtxt.value);
if(letters)
{
return true;
}
else
{
alert("message"); return false;
}
}
```

To get a string contains only letters (both uppercase or lowercase) we use a regular expression (/^[A-Za-z]+\$/) which allows only letters. Next the match() method of string object is used to match the said regular expression against the input value.

Reference: JavaScript : HTML Form validation - checking for all letters

#### NEW QUESTION 203

DRAG DROP

You create a webpage that includes the following HTML markup: (Line numbers are included for reference only.)

```
01  <!DOCTYPE html>
02  <html>
03    <head>
04      <script src="jquery.js"></script>
05    </head>
06    <body>
07      <p>Type OK to validate form.</p>
08      <form action="javascript:alert('success!');">
09        <div>
10          <input type="text" />
11          <input type="submit" />
12        </div>
13      </form>
14      <script>
15
16      </script>
17    </body>
18  </html>
```

You need to ensure that a form cannot be submitted unless the INPUT element contains the word OK.  
Which five actions should you perform in sequence? (To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.)

Answer Area

);

\$("#form").submit(function () {

return false;

}

return true;

}

if (\$("#input:first\_child").val() == "OK") {

if (\$("#input:first").val() == "OK") {

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

);

\$("#form").submit(function () {

if (\$("#input:first").val() == "OK") {

return true;

}

return false;

}

);



#### NEW QUESTION 205

You are creating an HTML5 application that allows users to play video on a page by using the VIDEO element. You need to enable the user to start, stop, and pause the video. Which line of code should you add to the page?

- A. `<video id= "myVideo" height="320" width="400" src="myVideo.vtt" contextmenu="pauseplay"></video>`
- B. `<video id="myVideo" height="320" width="400" src="myVideo.vtt" controls></video>`
- C. `<video _d="myVideo" height="320" width="400" src="myVideo.vtt" autoplay></video>`
- D. `<video id="myVideo" height="320" width="400" src="myVideo.vtt" contextinenu="Startstopn"></video>`

**Answer: B**

#### Explanation:

The HTML <video> Element

To show a video in HTML, use the <video> element:

The controls attribute adds video controls, like play, pause, and volume. Example

```
<video width="320" height="240" controls>
```

```
<source src="movie.mp4" type="video/mp4">
```

```
<source src="movie.ogg" type="video/ogg"> Your browser does not support the video tag.
```

```
</video>
```

Reference: HTML5 Video

#### NEW QUESTION 209

You are creating a web page that contains a canvas with text.

The page contains the following JavaScript code. (Line numbers are included for reference only.)

```
01 var canvas = document.getElementById('myCanvas');
02 var context = canvas.getContext('2d');
03
```

The text on the canvas must rotate 90 degrees when a user clicks a button on the page. You need to ensure that the text rotates when the user clicks the button. Which line of code should you add at line 03?

- A. `context.transform(90);`
- B. `context.content.getRotation(90);`
- C. `context.rotate(90);`
- D. `context.content.rotate (90);`

**Answer: C**

#### Explanation:

The rotate() method rotates the current drawing. Example

Rotate the rectangle 20 degrees: JavaScript:

```
var c=document.getElementById("myCanvas"); var ctx=c.getContext("2d"); ctx.rotate(20*Math.PI/180); ctx.fillRect(50,20,100,50);
```

Reference: HTML canvas rotate() Method

#### NEW QUESTION 214

DRAG DROP

You are creating a function by using JavaScript. You have the following requirements:

The function must display loan amounts to the user within the following HTML element:

```
<div id="display"></div>
```

The loan amount of 2100 must display in the HTML element.

All declared variables and functions must be scoped to the myApp variable. You need to implement the function.

How should you complete the relevant code? (To answer, drag the appropriate code segments to the correct location or locations in the answer area. Use only code segments that apply.)

this.loanAmount += 1000;

this.loanAmount = 100;

loanAmount = 100;

loanAmount += 1000;

myApp.loanAmount

loanAmount

### Answer Area

```

var myApp = {};
(function () {

    this.display = function (value) {
        document.getElementById('display').innerHTML += value;
    };
    this.increaseLoanAmount = function () {

        return;
    };
    this.increaseLoanAmountAgain = function () {

        return;
    };
}).apply(myApp);
myApp.increaseLoanAmount();
myApp.increaseLoanAmountAgain();

myApp.display(
                
```

- A. Mastered  
 B. Not Mastered

**Answer:** A

**Explanation:**

```

var myApp = {};
(function () {

    this.loanAmount = 100;

    this.display = function (value) {
        document.getElementById('display').innerHTML += value;
    };
    this.increaseLoanAmount = function () {

        this.loanAmount += 1000;

        return;
    };
    this.increaseLoanAmountAgain = function () {

        this.loanAmount += 1000;

        return;
    };
}).apply(myApp);
myApp.increaseLoanAmount();
myApp.increaseLoanAmountAgain();

myApp.display(myApp.loanAmount
    
```

**NEW QUESTION 215**

You are troubleshooting an application. Users report that the UI is slow to respond.  
 You need to improve UI responsiveness by moving application tasks to web workers.  
 Which two tasks can you move to achieve this goal? (Each correct answer presents a complete solution. Choose two.)

- A. A function that loops through the Document Object Model to update the style of page elements  
 B. A long-running calculation that requires looping through an array  
 C. A function that performs graphic-intensive animation  
 D. A function that stores large amounts of data to local storage

**Answer:** BC

**Explanation:**

Note:

\* Despite the improvements in JavaScript engines, it is not uncommon for users to encounter frozen user interfaces as the browser works through resource intensive tasks. This leads to a horrible user experience. The purpose of Web Workers is to give developers a way of instructing the browser to process large tasks in the background; therefore preventing the UI from freezing up.

\* The Web Workers specification defines an API for spawning background scripts in your web application. Web Workers allow you to do things like fire up long-running scripts to handle computationally intensive tasks, but without blocking the UI or other scripts to handle user interactions

#### NEW QUESTION 220

You develop an interactive scalable vector graphic (SVG) application.

You write the following code (Line numbers are included for reference only.):

```
01  <script>
02
03  </script>
04  <svg height="150" width="150" id="myGraphic">
05    <circle cx="25" r="20" cy="20" fill="orange" id="myCircle"/>
06  </svg>
07  <button id="zoom" onclick="zoomIn();">Zoom In</button>
```

You need to increase the size of the circle by 50 percent. Which code segment should you insert at line 02?

- ☐ A. 

```
function zoomIn() {
    var myGraphic = document.getElementById("myGraphic");
    myGraphic.createSVGTransform(1.5);
}
```
- ☐ B. 

```
function zoomIn() {
    var myGraphic = document.getElementById("myGraphic");
    myGraphic.setAttribute("currentScale", 1.5);
}
```
- ☐ C. 

```
function zoomIn() {
    var myCircle = document.getElementById("myCircle");
    myCircle.setAttribute("currentScale", 1.5);
}
```
- ☐ D. 

```
function zoomIn() {
    var myCircle = document.getElementById("myCircle");
    myCircle.r = myCircle.r * 1.5;
}
```

- A. Option A  
 B. Option B  
 C. Option C  
 D. Option D

**Answer: D**

#### Explanation:

Increase the radius (the r property) of the circle (not the graphic) by a factor 1.5. Incorrect: CurrentScale is used for zooming. Reference: The HTML <svg> Element

#### NEW QUESTION 221

You develop an HTML application that is located at [www.adventure-works.com](http://www.adventure-works.com). The application must load JSON data from [www.fabrikam.com](http://www.fabrikam.com).

You need to choose an approach for loading the data. What should you do?

- A. Design a REST URI scheme with multiple domains.  
 B. Configure Cross-Origin Resource Sharing (CORS) on the servers.  
 C. Load the data by using WebSockets.  
 D. Use the jQuery getJSON method.

**Answer: B**

#### Explanation:

\* Cross-origin resource sharing (CORS) is a mechanism that allows Javascript on a web page to make XMLHttpRequests to another domain, not the domain the Javascript originated from. Such "cross- domain" requests would otherwise be forbidden by web browsers, per the same origin security policy. CORS defines a way in which the browser and the server can interact to determine whether or not to allow the cross-origin request.[2] It is more powerful than only allowing same-origin requests, but it is more secure than simply allowing all such cross-origin requests.

\* You must use Cross Origin Resource Sharing



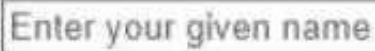
It's not as complicated as it sounds...simply set your request headers appropriately...in Python it would look like:

```
self.response.headers.add_header('Access-Control-Allow-Origin', '*'); self.response.headers.add_header('Access-Control-Allow-Methods', 'GET, POST, OPTIONS'); self.response.headers.add_header('Access-Control-Allow-Headers', 'X-Requested-With'); self.response.headers.add_header('Access-Control-Max-Age', '86400');
```

#### NEW QUESTION 222

You develop a webpage with a standard input control by using HTML5.

The input control must display the text Enter your given name, as shown below:



When a user selects the input control, the text must disappear. You need to create the input control.

Which input control should you use?

- A. `<input name="GivenName" value=" Enter your given name" />`
- B. `<input name ="GivenName" default=" Enter your given name" />`
- C. `<input name="GivenName" text=" Enter your given name" />`
- D. `<input name="GivenName" placeholder=" Enter your given name" />`

**Answer: D**

#### Explanation:

The placeholder attribute specifies a short hint that describes the expected value of an input field (e.g. a sample value or a short description of the expected format).

The short hint is displayed in the input field before the user enters a value.

The placeholder attribute works with the following input types: text, search, url, tel, email, and password.

Reference: HTML `<input>` placeholder Attribute

#### NEW QUESTION 227

You develop an HTML5 webpage. You have the following HTML markup:

```
<section id="news">
  <h1>World News</h1>
  <article id="news1">...</article>
  <article id="news2">...</article>
  <article id="news3">...</article>
</section>
<section id="sports">
  <h1>Sports</h1>
  <article id="sports1">...</article>
  <article id="sports2">...</article>
  <article id="sports3">...</article>
</section>
```

You need to add a background color to the first article in each section. Which code segment should you add to the webpage?

- A. `$ ("section article:first-child").css("background-color", "#f2f2f2");`
- B. `$ ("section:first-child").css ( "background-color", "#f2f2f2");`
- C. `$ ("article:first-of-type") .css("background-color", "#f2f2f2");`
- D. `$ ("section:first-of-type").css("background-color", "#f2f2f2");`

**Answer: C**

#### Explanation:

The `:first-of-type` selector matches every element that is the first child, of a particular type, of its parent.

Reference: CSS3 `:first-of-type` Selector

#### NEW QUESTION 232

You develop an HTML5 application for a company. Employees must enter a personal identification number (PIN) in an INPUT element named SecurityCode to access their employee records.

The SecurityCode element must meet the following requirements: Allow up to 6 digits.

Do not display numbers as they are entered.

Display the text Enter PIN Code before the user enters any data. You need to implement the SecurityCode element.

Which HTML markup should you add to the application?

- ☐ A. `<input name="SecurityCode" type="text" maxlength="6" title="Enter PIN Code" pattern="*****" />`
- ☐ B. `<input name="SecurityCode" type="text" maxlength="6" title="Enter PIN Code" pattern="*****" />`
- ☐ C. `<input name="SecurityCode" type="password" size="6" placeholder="Enter PIN Code" pattern="*****" />`
- ☐ D. `<input name="SecurityCode" type="password" maxlength="6" placeholder="Enter PIN Code" />`
- ☐ E. `<input name="SecurityCode" type="password" maxlength="6" value="Enter PIN Code" />`

- A. Option A  
 B. Option B  
 C. Option C  
 D. Option E

**Answer:** D

**Explanation:**

\* Input Type: password

`<input type="password">` defines a password field.

The characters in a password field are masked (shown as asterisks or circles).

\* The placeholder attribute specifies a short hint that describes the expected value of an input field

a. g. a sample value or a short description of the expected format).

The short hint is displayed in the input field before the user enters a value.

The placeholder attribute works with the following input types: text, search, url, tel, email, and password.

Reference: HTML Input Types ; HTML `<input>` placeholder Attribute

**NEW QUESTION 234**

DRAG DROP

You develop an HTML5 webpage. You have the following HTML markup:

```
<div id="MapContents"></div>

```

You need to update the content of the DIV element when the mouse hovers over an image and when the mouse coordinates change.

How should you complete the relevant code? (To answer, drag the appropriate code segment to the correct location or locations in the answer area)

- A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

\* addEventListener mousemove

Use the element.addEventListener() method to attach an event handler to a specified element. onmousemove : Fires when the mouse pointer is moving while it is over an element

\* The clientX property returns the horizontal coordinate (according to the client area) of the mouse pointer when a mouse event was triggered.

Example:

Output the coordinates of the mouse pointer when an mouse event has occurred: var x = event.clientX; // Get the horizontal coordinate

var y = event.clientY; // Get the vertical coordinate var coor = "X coords: " + x + ", Y coords: " + y;

The result of coor could be: X coords: 142, Y coords: 99

Reference: HTML DOM addEventListener() Method; onmousemove Event; MouseEvent clientX Property

**NEW QUESTION 236**

**HOTSPOT**

You are creating a custom CSS3 style.

You have the following requirements to complete the style: Box1 has a red outline.

Box1 contains box2, and box2 must remain inside box1 Box2 must have a green to black gradient.

Box2 must be surrounded by white space. The style resembles the following diagram:



You need to add the CSS3 code to the styles.

How should you complete the relevant code? (To answer, select the appropriate code segment in each drop-down list in the answer area.)

```
<style>
  #box1
  {
    [ ]
  }

  #box2
  {
    width: 6em;
    height: 4em;
    position: absolute;
    [ ]
    [ ]
  }
</style>
```



```
<style>
#box1
{
margin: 5em; border: 1px solid #f00;
margin: 5em; border-color: red;
margin: 10px 10px 10px 10px; color: red;
margin: 10px 10px 10px 10px; border-style: solid;
}

#box2
{
width: 6em;
height: 4em;
position: absolute;
background-image: linear-gradient(to bottom, green, black);
background-image: linear-gradient(to top, green, black);
background-image: radial-gradient(to bottom, green, black);
background-image: radial-gradient(to top, green, black);
margin: 0px 0px 0px 0px;
margin: 10px 10px 10px 10px;
padding: 0px 0px 0px 0px;
padding: 10px 10px 10px 10px;
}
</style>
```

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- \* border: 1px solid #f00;  
a red border 1 pixel thick.
- \* background-image: linear-gradient(to bottom, green,black); Linear Gradients (goes down/up/left/right/diagonally).  
Starts at the top with green and goes to bottom with black.
- \* margin: 10px 10px 10px 10px;  
The CSS margin properties define the space around elements.  
The top, right, bottom, and left margin can be changed independently using separate properties. Incorrect:
- \* border-color: red;  
will not display any border
- \* Radial Gradients (defined by their center).

**NEW QUESTION 239**

You develop an HTML application that is located at [www.adventure-works.com](http://www.adventure-works.com). The application must load JSON data from [www.fabrikam.com](http://www.fabrikam.com). You need to choose an approach for loading the data. What should you do?

- A. Add a crossdomain.xml file to the second server.
- B. Configure Cross-Origin Resource Sharing (CORS) on the servers.
- C. Load the data in a JavaScript timeout callback.
- D. Reference the remote data as an XML resource.

**Answer:** B

**Explanation:**

- \* Cross-origin resource sharing (CORS) is a mechanism that allows Javascript on a web page to make XMLHttpRequests to another domain, not the domain the Javascript originated from. Such "cross- domain" requests would otherwise be forbidden by web browsers, per the same origin security policy. CORS defines a way in which the browser and the server can interact to determine whether or not to allow the cross-origin request.[2] It is more powerful than only allowing same-origin requests, but it is more secure than simply allowing all such cross-origin requests.
- \* You must use Cross Origin Resource Sharing  
It's not as complicated as it sounds...simply set your request headers appropriately...in Python it would look like:  
self.response.headers.add\_header('Access-Control-Allow-Origin', '\*'); self.response.headers.add\_header('Access-Control-Allow-Methods', 'GET, POST, OPTIONS'); self.response.headers.add\_header('Access-Control-Allow-Headers', 'X-Requested-With'); self.response.headers.add\_header('Access-Control-Max-Age', '86400');

**NEW QUESTION 244**

You develop an HTML5 application that interacts with a REST service. The REST service accepts JSON data. A JavaScript object named form Data contains data that is sent to the REST service. You need to convert the JavaScript object named formData into JSON. Which code segment should you use?

- A. jQuery.ajax.valueOf(formData);
- B. window.eval(formData);
- C. JSON.stringify(formData);
- D. formData.toString();

**Answer: C**

**Explanation:**

JSON.stringify converts a JavaScript value to a JavaScript Object Notation (JSON) string. Reference: JSON.stringify Function (JavaScript)

**NEW QUESTION 248**

You are developing a web page that will contain an animated logo. The web page currently has a logo image on a canvas object. You need to spin the logo image on the canvas. Which method should you use?

- A. context.rotate()
- B. context.spin()
- C. context.translatePosition()
- D. context.setTransform()

**Answer: A**

**Explanation:**

The rotate() method rotates the current drawing. Example

Rotate the rectangle 20 degrees: JavaScript:

```
var c=document.getElementById("myCanvas"); var ctx=c.getContext("2d"); ctx.rotate(20*Math.PI/180); ctx.fillRect(50,20,100,50);
```

Incorrect:

not B: there is no canvas.spin method. Reference: HTML canvas rotate() Method

**NEW QUESTION 251**

You are developing a web page that includes the following HTML.

`<span id="myTextSpan" class="myStyle">Hello, World!</span>` You need to use inline CSS styling to format the text with Arial font. Which code segment should you use?

- ☒ A. 

```
<style>
.myStyle
{
    font-style: Arial;
}
</style>
```
- ☐ B. 

```
<span id="myTextSpan" class="myStyle" style="font-family: Arial">Hello, World!</span>
```
- ☐ C. 

```
<span id="myTextSpan" class="myStyle" style="font-style: Arial">Hello, World!</span>
```
- ☐ D. 

```
<style>
.myStyle
{
    font-family: Arial;
}
</style>
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: B**

**Explanation:**

The font-family property specifies the font for an element. Incorrect:

not A, not D: This is not inline CSS.

not C: With font style we define style only:

Syntax: font-style: normal|italic|oblique|initial|inherit; Reference: CSS font-family Property

**NEW QUESTION 253**

You develop an HTML5 webpage. You have the following JavaScript code:

```
01 $(document).ready(function () {  
02  
03     e.preventDefault();  
04     ...  
05 });  
06 });
```

You need to handle the click event when a user clicks the showDialog button. Which code segment should you insert at line 02?

- A. \$(document).trigger("click", "#showDialog", function (e) {
- B. \$(document).on("#showDialog", "click", function (e) {
- C. \$(document).toggle("click", "#showDialog", function (e) {
- D. \$(document).on("click", "#showDialog", function (e) {

**Answer:** D

**Explanation:**

Syntax: .on( events [, selector ] [, data ], handler )

\* Example:

```
$(function() {
```

```
$(document).on('click', '.get-widgets', function (e) { Reference: jQuery .on()
```

**NEW QUESTION 257**

You troubleshoot a webpage that contains the following HTML markup: (Line numbers are included for reference only.)

```
01 <div onclick="someEvent()">  
02   <input type="radio" name="sizeRadio" id="sizeRadioSml" value="1" />  
   <label for="sizeRadioSml">Small</label>  
03   <input type="radio" name="sizeRadio" id="sizeRadioMed" value="2" />  
   <label for="sizeRadioMed">Medium</label>  
04   <input type="radio" name="sizeRadio" id="sizeRadioLrg" value="3" />  
   <label for="sizeRadioLrg">Large</label>  
05 </div>
```

The webpage also contains the following JavaScript function named someEvent() that is declared in the HEAD section of the HTML:

```
Function someEvent() { Alert('someEvent fired!');  
}
```

The JavaScript function named someEvent() must run only when the user clicks the DIV element, not the INPUT elements.

You need to modify the webpage to invoke the JavaScript function named someEvent(). What should you do? (Each correct answer presents a complete solution. Choose two.)



- ☐ A. Modify all INPUT elements by using the following HTML attribute:

```
onclick="stopPropagation(event) "
```

Declare the JavaScript function named **stopPropagation()** in the HEAD section of the HTML as follows:

```
function stopPropagation(event) {  
    event = event || window.event;  
    if (event.stopPropagation) {  
        event.stopPropagation();  
    } else {  
        event.cancelBubble = true;  
    }  
}
```

- ☐ B. Place all INPUT elements within a SPAN element.

- ☐ C. Replace the DIV element declaration at line 01 with the following HTML markup:

```
<div onclick="someEvent(this,event) ">
```

Modify the JavaScript function named **someEvent()** as follows:

```
function someEvent( el, event ) {  
    var target = event.srcElement || event.target;  
    if( el === target ) {  
        alert('someEvent fired!');  
    }  
}
```

- ☐ D. Replace the DIV element declaration at line 01 with the following HTML markup:

```
<div>
```

Modify all INPUT elements by using the following HTML attribute:

```
onclick="someEvent() "
```

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** AB

#### NEW QUESTION 259

You have a webpage that includes the following markup and code:

```
<!DOCTYPE html>
<html>
  <head>
    <script>
      function start() {
        var counter = 10;
        var fun = function () {
          counter = 20;
        }
        return counter;
      }
    </script>
  </head>
  <body>
    <button id="submit" onclick="alert(start());">Start</button>
  </body>
</html>
```

You need to troubleshoot the code by clicking the Submit button. Which value will be displayed?

- A. 10
- B. 20
- C. Undefined
- D. Runtime error

**Answer:** A

**Explanation:**

\* The outermost assignment, counter = 10; will decide the output that is displayed.  
 \* Local variables have local scope: They can only be accessed within the function. Example  
 // code here can not use carName function myFunction() {  
 var carName = "Volvo";  
 // code here can use carName  
 }  
 \* A variable declared outside a function, becomes GLOBAL.  
 A global variable has global scope: All scripts and functions on a web page can access it.  
 Example  
 var carName = " Volvo";  
 // code here can use carName function myFunction() {  
 // code here can use carName  
 }  
 Reference: JavaScript Scope

**NEW QUESTION 261**

You are creating a JavaScript object that represents a customer.  
 You need to extend the Customer object by adding the GetCommission method.  
 You need to ensure that all future instances of the Customer object implement the GetCommission method.  
 Which code segment should you use?

- ☐ A. 

```
Customer.apply.GetCommission = function()
{
    alert('payroll');
}
```
- ☐ B. 

```
Customer.GetCommission = function () {
    alert('payroll');
}
```
- ☐ C. 

```
Customer.prototype.GetCommission = function Customer.GetCommission()
{
    alert('payroll');
}
```
- ☐ D. 

```
Customer.prototype.GetCommission = function ()
{
    alert('payroll');
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** D

**Explanation:**

\* Object.prototype.constructor

Returns a reference to the Object function that created the instance's prototype. Note that the value of this property is a reference to the function itself, not a string containing the function's name. The value is only read-only for primitive values such as 1, true and "test".

\* The constructor property is created together with the function as a single property of func.prototype.

Reference: Object.prototype.constructor

**NEW QUESTION 265**

DRAG DROP

You are developing a form that captures a user's email address by using HTML5 and jQuery. The form must capture the form elements as a string.

You need to implement this functionality.

How should you develop the form? (To answer, drag the appropriate code segment to the correct target or targets in the answer are

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

\* The serialize() method creates a URL encoded text string by serializing form values.

You can select one or more form elements (like input and/or text area), or the form element itself. The serialized values can be used in the URL query string when making an AJAX request.

Example: \$("form").serialize();

\* decodeURIComponent

The decodeURIComponent() function decodes a URI component.

Return Value: A String, representing the decoded URI Incorrect:

Not decodeURI:

decodeURI is intended for use on the full URI.

decodeURIComponent is intended to be used on .. well .. URI components that is any part that lies between separators (; / ? : @ & = + \$ , #).

Reference: jQuery serialize() Method

**NEW QUESTION 269**

You are developing a website that helps users locate theaters in their area from a browser. You created a function named findTheaters ().

The function must:

Get the current latitude and longitude of the user's device Pass the user's location to findTheaters()

The user needs to access the geolocation information from the browser before searching for theaters.

Which code segment should you use?

- ☐ A. 

```
function GetTheaters {  
    theaters = findTheaters(navigator.geolocation.getCurrentPosition());  
    ...  
}
```
- ☐ B. 

```
navigator.geolocation.getBrowserPosition(hasPosition);  
  
function hasPosition(position) {  
    theaters = findTheaters(position.coords.latitude, position.coords.longitude);  
    ...  
}
```
- ☐ C. 

```
navigator.geolocation.getCurrentPosition(hasPosition, noPosition);  
  
function hasPosition(position) {  
    theaters=findTheaters(position.coords.latitude, position.coords.longitude);  
    ...  
}  
  
function noPosition() {  
    ...  
}
```
- ☐ D. 

```
function GetTheaters {  
    theaters = findTheaters(navigator.geolocation.getLatitude(), navigator.geolocation.getLongitude());  
    ...  
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D



**Answer:** C

**Explanation:**

\* The `getCurrentPosition` method retrieves the current geographic location of the device. The location is expressed as a set of geographic coordinates together with information about heading and speed. The location information is returned in a `Position` object.

syntax of this method:

`getCurrentPosition(showLocation, ErrorHandler, options);` where

`showLocation` : This specifies the callback method that retrieves the location information. This method is called asynchronously with an object corresponding to the `Position` object which stores the returned location information.

`ErrorHandler` : This optional parameter specifies the callback method that is invoked when an error occurs in processing the asynchronous call. This method is called with the `PositionError` object that stores the returned error information.

\* e example below is a simple Geolocation example returning the latitude and longitude of the user's position:

Example

```
<script>
var x = document.getElementById("demo"); function getLocation() {
if (navigator.geolocation) { navigator.geolocation.getCurrentPosition(showPosition);
} else {
x.innerHTML = "Geolocation is not supported by this browser.";
}
}
function showPosition(position) {
x.innerHTML = "Latitude: " + position.coords.latitude + "<br>Longitude: " + position.coords.longitude;
}
</script>
```

Example explained:

Check if Geolocation is supported

If supported, run the `getCurrentPosition()` method. If not, display a message to the user

If the `getCurrentPosition()` method is successful, it returns a coordinates object to the function specified in the parameter ( `showPosition` )

The `showPosition()` function gets the displays the Latitude and Longitude

The example above is a very basic Geolocation script, with no error handling. Reference: HTML5 Geolocation; Geolocation `getCurrentPosition()` API

**NEW QUESTION 273**

You are developing an HTML5 page named `main.html`. The JavaScript code for the main page is located in a file named `myApp.js`.

You need to create a web worker and instantiate it from `main.html`. Where should you place the web worker code?

- A. In the `myApp.js` file
- B. In the `main.html` file
- C. In a separate `.js` (JavaScript) file
- D. In a separate executable file

**Answer:** C

**Explanation:**

Spawning a dedicated worker

Creating a new worker is simple. All you need to do is call the `Worker()` constructor, specifying the URI of a script to execute in the worker thread (`main.js`):

`var myWorker = new Worker("worker.js");` Reference: Using Web Workers

**NEW QUESTION 275**

You are developing a JavaScript library. You have the following requirements:

Custom exceptions must include an error message and custom error number. These exceptions must be thrown when data validation errors occur.

Developers must call the library to easily catch the exception and identify the problem. You develop the following code. (Line numbers are included for reference only.)

```
01 function ValidationException(number, message) {
02     this.message = message;
03     this.name = "myLibrary Exception";
04     this.number = number;
05 }
06
07 function myFunction(dayOfWeek) {
08     if (dayOfWeek > 7) {
09
10     }
11 }
```

You need to complete the code to meet the requirements. Which line of code should you insert at line 09?

- A. `throw new ValidationException.Exception (123, "Day of week must be less than 7");`
- B. `return new ValidationException(123, "Day of week must be less than 7");`
- C. `throw ValidationException(123, "Day of week must be less than 7");`
- D. `catch ValidationException(123, "Day of week: must be less than 7");`

**Answer:** A

**Explanation:**

Example:

`if (value < -100 || value > 100)`

```
{
throw new ValidationException(String.Format("Value is {0} than {1}.", (value > 100 ? "greater" : "less"), value));
}
```

}

### NEW QUESTION 278

You are developing an application that retrieves a stock rate from an external web service. A web page displays a simple rotating animation to indicate whether the stock rate is increased or decreased.

The default image, as shown in the following graphic, indicates unchanged or neutral.



The arrow must point down if the stock rate is decreased, as shown in the following graphic.



You need to ensure that the arrow points down when the stock rate decreases. Which CSS style should you apply?

- ☐ A. 

```
<style type="text/css">
div
{
width:20px;
height:20px;
transform:move(90deg);
}
</style>
```
- ☐ B. 

```
<style type="text/css">
div
{
width:20px;
height:20px;
transform:rotate(-90deg);
}
</style>
```
- ☐ C. 

```
<style type="text/css">
div
{
width:20px;
height:20px;
transform:move(-90deg);
}
</style>
```
- ☐ D. 

```
<style type="text/css">
div
{
width:20px;
height:20px;
transform:rotate(90deg);
}
</style>
```

- A. Option A  
 B. Option B  
 C. Option C  
 D. Option D

**Answer: D**

#### Explanation:

transform:rotate rotate(angle)

Defines a 2D rotation, the angle is specified in the parameter Syntax: object.style.transform="rotate(7deg)"

Reference: CSS3 transform Property

### NEW QUESTION 283

You are troubleshooting a web page that includes the following code segment.

```
var x = 0;
function fun() {
    var x = 1;
    if (x) {
        x = 2;
    }
}
fun();
alert(x);
```

You need to evaluate the value of the variable x. What will be displayed in the user interface?

- A. 1
- B. 2
- C. An error

**Answer: A**

**Explanation:**

\* Alert(x) is within the scope of the outermost assignment, x=0.

\* Local variables have local scope: They can only be accessed within the function. Example

// code here can not use carName function myFunction() {

var carName = "Volvo";

// code here can use carName

}

\* A variable declared outside a function, becomes GLOBAL.

A global variable has global scope: All scripts and functions on a web page can access it.

Example

var carName = "Volvo";

// code here can use carName function myFunction() {

// code here can use carName

}

\* The alert() method displays an alert box with a specified message and an OK button.

An alert box is often used if you want to make sure information comes through to the user. Reference: JavaScript Scope

**NEW QUESTION 286**

You are developing an HTML5 web application that provides a discussion forum for users. When a user registers to access the application, the user enters an email address.

Users can enter data that can result in cross-site scripting (XSS) attacks. You need to ensure that email input is as secure as possible.

Which two techniques should you use? (Each correct answer presents a complete solution. Choose two.)

- A. Remove all nonalphanumeric characters before submitting data.
- B. Use the email tag in forms where the email address is entered.
- C. Display all email addresses inside of an HTML5 ADDRESS element.
- D. Use jQuery validation with a regular expression to ensure that email addresses are valid.
- E. Ensure that all form data is encrypted when it is submitted.

**Answer: BD**

**Explanation:**

B: The <input type="email"> is used for input fields that should contain an e-mail address. Depending on browser support, the e-mail address can be automatically validated when submitted.

Some smartphones recognize the email type, and adds ".com" to the keyboard to match email input. D: JQuery can be used to validate email addresses.

Reference: HTML Input Types; Email Validation Using jQuery Codes

**NEW QUESTION 291**

**HOTSPOT**

You are validating user input by using JavaScript and regular expressions. A group of pre-defined regular expressions validate two input fields:

You need to use the correct expression to validate the input.

Which expression should you insert into each function? To answer, select the appropriate options from the drop-down lists in the answer area.



## Answer Area

```
function validateID(userinput) {
```

```
var IDPattern =
```

```
/^d{1,2}(\-|V|\ )d{1,2}\1d{4}$/;  
/^0-9{3}\-?[0-9]{2}\-?[0-9]{4}$/;  
/^0-9{0}\^*[0-9]{2}\^*[0-9]{4}$/;  
/^a-zA-Z0-9-]+\@[a-zA-Z0-9-]+\[a-zA-Z]{2,4}$/;  
/^0-9{3}+@[a-zA-Z0-9-]+\[0-9]{2,4}$/;
```

```
return IDPattern.test ( userinput ) ;
```

```
}
```

```
function validateEmail ( userinput) {
```

```
var emailPattern =
```

```
/^d{1,2}(\-|V|\ )d{1,2}\1d{4}$/;  
/^0-9{3}\^?[0-9]{2}\^?[0-9]{4}$/;  
/^0-9{0}\^*[0-9]{2}\^*[0-9]{4}$/;  
/^a-zA-Z0-9-]+\@[a-zA-Z0-9-]+\[a-zA-Z]{2,4}$/;  
/^0-9{3}+@[a-zA-Z0-9-]+\[0-9]{2,4}$/;
```

```
return emailPattern.test (userinput) ;
```

```
}
```

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

## Answer Area

```
function validateID(userinput) {
```

```
var IDPattern =
```

```
/^d{1,2}(\-|V|\ )d{1,2}\1d{4}$/;  
/^0-9{3}\-?[0-9]{2}\-?[0-9]{4}$/;  
/^0-9{0}\^*[0-9]{2}\^*[0-9]{4}$/;  
/^a-zA-Z0-9-]+\@[a-zA-Z0-9-]+\[a-zA-Z]{2,4}$/;  
/^0-9{3}+@[a-zA-Z0-9-]+\[0-9]{2,4}$/;
```

```
return IDPattern.test ( userinput ) ;
```

```
}
```

```
function validateEmail ( userinput) {
```

```
var emailPattern =
```

```
/^d{1,2}(\-|V|\ )d{1,2}\1d{4}$/;  
/^0-9{3}\^?[0-9]{2}\^?[0-9]{4}$/;  
/^0-9{0}\^*[0-9]{2}\^*[0-9]{4}$/;  
/^a-zA-Z0-9-]+\@[a-zA-Z0-9-]+\[a-zA-Z]{2,4}$/;  
/^0-9{3}+@[a-zA-Z0-9-]+\[0-9]{2,4}$/;
```

```
return emailPattern.test (userinput) ;
```

```
}
```

## NEW QUESTION 296

### HOTSPOT

You have the following markup.

```
<form id= "formLogin">
  <input type= "text" id= "fieldLoginName" />
  <input type= "password" id= "fieldPassword" value= "MySecretPassword" />
  <input type= "submit" onclick "Validation ();" />
</form>
<script>
  $(document).ready (function ( ) {
    var fldPassword = document.getElementById("fieldPassword") ;
    fldPassword.value = "MyNewSecretPassword" ;
    alert(fldPassword.value) ;
  });
</script>
```

For each of the following statements, select yes if the statement is true. Otherwise, select No.

Answer Area

Statements	Yes	No
A default value is set for the fieldPassword field.	<input type="radio"/>	<input type="radio"/>
As a user types in the fieldPassword field, the typed characters will be masked.	<input type="radio"/>	<input type="radio"/>
When the page loads, an alert will be displayed that shows the current value of the fieldPassword field as MyNewSecretPassword.	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer Area

Statements	Yes	No
A default value is set for the fieldPassword field.	<input checked="" type="radio"/>	<input type="radio"/>
As a user types in the fieldPassword field, the typed characters will be masked.	<input checked="" type="radio"/>	<input type="radio"/>
When the page loads, an alert will be displayed that shows the current value of the fieldPassword field as MyNewSecretPassword.	<input checked="" type="radio"/>	<input type="radio"/>

NEW QUESTION 300  
 HOTSPOT  
 You have the following code:

```
var var1 = parseInt( '12', 10);  
var var2 = parseInt( 'aaa', 10);  
var var3 = parseInt( '12px', 10);  
var var4 = parseInt( 'foo2', 10);  
var var5 = parseInt( '12a5', 10);
```

You need to identify the correct value of each variable.

What should you identify? To answer, drag the appropriate values to the correct variables in the answer are

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

References: [http://www.w3schools.com/jsref/jsref\\_parseint.asp](http://www.w3schools.com/jsref/jsref_parseint.asp)

#### NEW QUESTION 302

You need to parse an XML formatted string. Which object should you use?

- A. Map
- B. DataView
- C. DOMParser
- D. JSON

**Answer:** C

#### NEW QUESTION 304

Which CSS3 code segment styles the text color of EM elements to be red and semi-transparent?

- A. em { color: #ff00007f; }
- B. em { color: rgba (255,0,0,0.5); }
- C. em { color: rgba (255,0,0,0.127); }
- D. em { color: rgba (100%,0%,0%, 50%); }

**Answer:** B

**Explanation:**

References:

[http://www.w3schools.com/cssref/css\\_colors\\_legal.asp](http://www.w3schools.com/cssref/css_colors_legal.asp)

#### NEW QUESTION 308

DRAG DROP

You are developing a corporate website for a company. The website uses a style sheet to enforce corporate image standards. Users report that the website is not properly rendering the styles.

You create a web page to test the styles by using the following code.



```
<!DOCTYPE html>
<html>
<head>
<title></title>
<style>
  body {
    background-color: gray;
  }

  .a {
    background-color: white;
  }

  .b {
    background-color: black;
    color: white;
  }
</style>
</head>
<body>
  <div class = "a">Sample Text
    <div class = "b">Sample Text</div>
    <p>Sample Text</p>
  </div>
  <div class= "a b">Sample Text</div>
</body>
</html>
```

You need to verify how the style will be displayed.  
In which order will the results be displayed? (To answer, drag the appropriate style from the list of styles to the correct location or locations in the work area.)

Styles

Sample Text

Sample Text

Sample Text

Answer Area

Style

Style

Style

Style

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

**Styles**

Sample Text

Sample Text

Sample Text

**Answer Area**

Sample Text

Sample Text

Sample Text

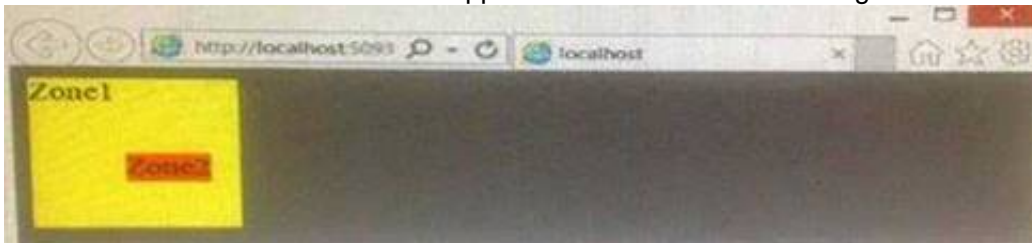
Sample Text

#### NEW QUESTION 311

You have the following code.

```
<div style= "background: yellow; height: 100px; width:100px"> Zone1
<span style= "background: red; position: Target 1; margin-top: 50px;" > Zone2 </span>
</div>
```

You need to ensure that the screen appears as shown in the following exhibit:



Which position should you use for Target 1?

- A. static
- B. fixed
- C. initial
- D. inherit

**Answer:** B

#### Explanation:

References:

[http://www.w3schools.com/cssref/pr\\_class\\_position.asp](http://www.w3schools.com/cssref/pr_class_position.asp)

#### NEW QUESTION 316

Which CSS3 code fragment uses a pseudo-element?

- A. p : first-letter {font-weight: bold;}
- B. div>p {font-weight: bold;}
- C. first-letter {font-weight: bold;}
- D. div+p {font-weight: bold;}

**Answer:** A

#### Explanation:

References:

<http://www.html5code.nl/css3-tutorials/css3-tutorial-css3-selectors/>

#### NEW QUESTION 318

DRAG DROP

You have a stylesheet for an existing website.

The website contains the following HTML markup.

```
<div id= "header">
  <ul class= "menuItems">
    <li>HOME</li>
    <li>PRODUCTS</li>
    <li>ABOUT US</li>
  </ul>
</div>
```

You need to ensure that the <li> elements are aligned horizontally. You write the following CSS markup in the stylesheet.

```
.menuItems li
{
  Target 1: Target 2;
}
```

How should you complete the markup? To answer, drag the appropriate code elements to the correct targets in the answer are a. Each code element may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

Answer Area

background- position

block

display

grid

inline

list-style

table

Target 1:

Target 2:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:  
References:  
<http://learn.shayhowe.com/html-css/creating-lists/>

NEW QUESTION 323  
Which CSS3 code fragment will style only the external links in an HTML document?

- A. a: visitied {font-weight: bold;}
- B. a [href\$= "http://"] {font-weight: bold;}
- C. a {font-weight: bold;}
- D. a [href^= "http://"] {font-weight : bold;}



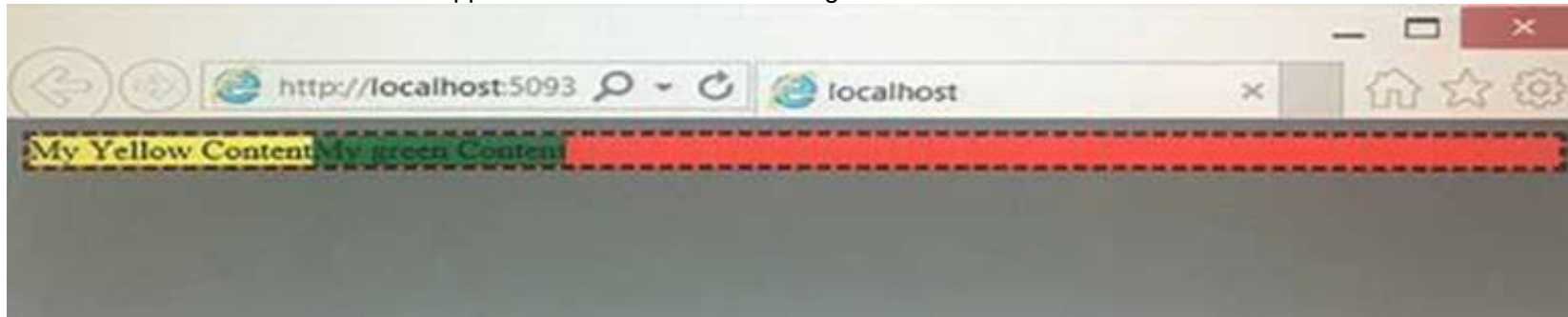
**Answer:** D

#### NEW QUESTION 327

You have the following code:

```
<body>
<div id="red" style="background-color:red;border:dashed;">
  <div id="yellow" style="background-color:yellow;">My Yellow Content</div>
  <div id="green" style="background-color:green;">My green Content</div>
</div>
</body>
```

You need to ensure that the content appears as shown in the following exhibit:



Which display attribute should you use for the red div?

- A. grid
- B. inline
- C. block
- D. flex

**Answer:** B

#### Explanation:

[https://www.w3schools.com/cssref/pr\\_class\\_display.asp](https://www.w3schools.com/cssref/pr_class_display.asp)

#### NEW QUESTION 331

You have a web page that contains the following markup.

```
<link rel="stylesheet" href="css1.css" />
```

You need to ensure that css1.css is used only when the current browser width is less than 800px. Which markup should you add to the web page?

- A. @media="(max-width: 800px)"
- B. @max-width="800px"
- C. media="(max-width: 800px)"
- D. max-width="800px"

**Answer:** A

#### NEW QUESTION 332

##### HOTSPOT

You have the following code. (Line numbers are included for reference only.)

```
01 <style>
02 .transition_style
03 {
04     font-size:15px;
05     font-weight:normal;
06     width:50px;
07     height:40px;
08     background:orange;
09     color:#ffffff;
10     padding:10px;
11     margin-left:auto;
12     border-radius:5px;
13     transition-property:width,height,transform,background,font-size,opacity;
14     transition-duration:1s,1s,1s,1s,1s,1s;
15 }
16 .transition_style:hover
17 {
18     font-size:30px;
19     font-weight:bolder;
20     width:100px;
21     height:80px;
22     margin-left:0px;
23     transform:rotateX(360deg);
24     background:red;
25 }
26 </style>
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

Answer Area

Statement	Yes	No
Margin-left will move gradually from right to left.	<input type="radio"/>	<input type="radio"/>
The background color will transition gradually from orange to red.	<input type="radio"/>	<input type="radio"/>
The animation effect will be the same if you replace lines 13 and 14 with the following code:  transition: all 1s linear;	<input type="radio"/>	<input type="radio"/>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

No  
Yes  
No  
[https://www.w3schools.com/cssref/pr\\_margin-left.asp](https://www.w3schools.com/cssref/pr_margin-left.asp) <https://css-tricks.com/almanac/properties/t/transition/>  
[https://www.w3schools.com/cssref/css3\\_pr\\_transition.asp](https://www.w3schools.com/cssref/css3_pr_transition.asp)

NEW QUESTION 334

DRAG DROP

You have the following HTML markup:

```
<div id="container">
  <form id="form1">
    Select Shipping:
    <select id="shippingType">
      <option>EXPRESS</option>
      <option>GROUND</option>
    </select>
  </form>
</div>
```

You need to create a JavaScript to add an additional option named Air to the shippingType element. You write the following code.

```
function addElements() {  
  
var option = document.getElementById("shippingType");  
  Target 1  
  newOption.text = "Air";  
  Target 2}
```

How should you complete the code? To answer, drag the appropriate lines of code to the correct targets in the answer area. Each line may be used once, more than once, or not at all. You may drag the split bar between panes or scroll to view content.

Lines of Code

- option.appendChild(newOption);
- option.appendChild(newOption.text);
- option.innerHTML = newOption.text
- var newOption = document.createElement("option");
- var newOption = document.createAttribute("option");
- var newOption = document.createElementNS("option");



Answer area

Target 1:

Target 2:

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:  
Target 1:  
Var newOption = document.createElement ("option") ; Target 2:  
Option.appendChild (newOption.text) ;

NEW QUESTION 336  
You are creating a custom object as described by the following code. Line numbers are included for reference only.



```
01  function square(side) {
02      this.side = side;
03      this.perimeter = perimeter;
04  }
05
```

You need to implement the perimeter method. Which code segment should you insert at line 05?

- A. function perimeter () {return 4 \* side;}
- B. function perimeter () {return 4 \* this.side;}
- C. function perimeter () {return 4 \* me.side;}
- D. function perimeter (obj) {return 4 \* obj.side;}

**Answer:** B

**Explanation:**

<http://creative-coding.decontextualize.com/objects-with-methods/>

#### NEW QUESTION 341

You are creating a JavaScript function that displays the name of a web application. You declare the following button element.

```
<input type="button" id="Contact" value="Contact" />
```

When a user clicks the button, a JavaScript function named Contact must be called.

You need to create an event handler that calls the Contact function when the button is clicked.

Which two code segments can you use? (Each correct answer presents a complete solution. Choose two.)

- ☐ A. 

```
var button = document.getElementById("Contact");
ScriptEngine.call(button,Contact());
```
- ☐ B. 

```
var button = document.getElementById("Contact");
ScriptEngine.bind(button,Contact());
```
- ☐ C. 

```
var button = document.getElementById("Contact");
button.addEventListener("click",Contact);
```
- ☐ D. 

```
var button = document.getElementById("Contact");
button.attachEvent("onclick",Contact);
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** C

**Explanation:**

[https://www.w3schools.com/jsref/met\\_element\\_addeventlistener.asp](https://www.w3schools.com/jsref/met_element_addeventlistener.asp)

#### NEW QUESTION 346

DRAG DROP

You need to write a callback function in JavaScript. You write the following code:

```
function newOrder(orderId, orderShip, Target 1) {
    document.write("New order being processed");
    Target 2
}
newOrder("333", "EXPRESS", Target 3 {
    ...
;})
```

How should you complete the code? To answer, drag the appropriate code elements to the correct targets in the answer area. Each code element can be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.

## Code Elements

callback  
 callback()  
 function()  
 newOrder  
 typeof  
 var

## Answer Area

Target 1:   
 Target 2:   
 Target 3:

- A. Mastered  
 B. Not Mastered

**Answer:** A

### Explanation:

Target 1: callback

Target 2: callback()

Target 3: function()

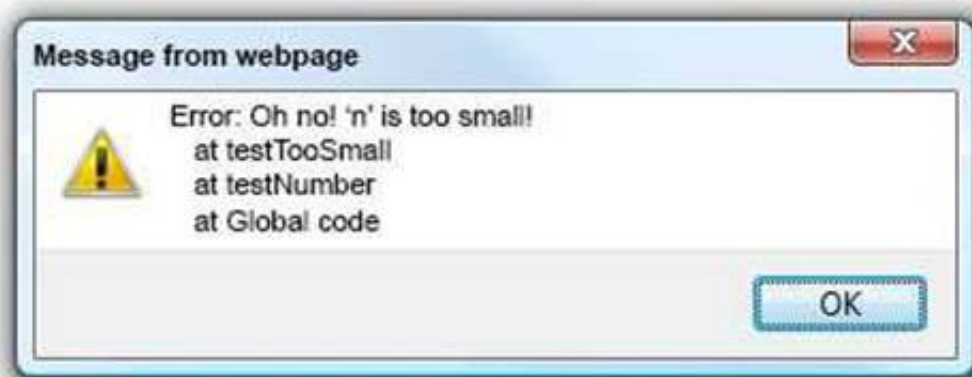
References: <https://www.impressivewebs.com/callback-functions-javascript/>

### NEW QUESTION 347

You have the following code. (Line numbers are included for reference only.)

```
01  funtion testNumber() {
02  testTooSmall(1);
03  }
04  function testTooSmall(n) {
05  if (n < 2)
06  throw "Oh no! 'n' is too small!"
07  return true;
08  }
09  try {
10  testNumber();
11  }
12  catch (e) {
13  alert(e.stack);
14  }
```

You execute the code and you receive an alert that displays the following message: "Undefined". You need to ensure that the alert displays as shown:



What should you do?

- A. Replace line 13 with the following code:alert(e.message);  
 B. Replace line 06 with the following code:throw new eval("Oh no! 'n' is too small!")  
 C. Replace line 13 with the following code:alert(e);  
 D. Replace line 06 with the following code.throw new Error("Oh no! 'n' is too small!")

**Answer:** D

### Explanation:

<http://www.javascriptkit.com/javatutors/trycatch2.shtml>

### NEW QUESTION 349

You are developing an application in HTML5. The application contains the following HTML markup.

```
<div>
  <h1>Resources</h1>
  <a href="http://contoso.com/people.aspx">People</a>
  <a href="http://contoso.com/orgProducts.aspx">Products</a>
  <a href="http://wiki.contoso.org">Resources</a>
  ...
</div>
```

You need to ensure that all of the links referencing domain names ending in .org are displayed in red text. What should you use?

- A. a JSON parse function
- B. a CSS attribute selector
- C. a CSS pseudo-element
- D. a JSON stringify function.

**Answer: B**

#### NEW QUESTION 353

You have the following markup.

```
<div style="display:flex;height:300px;background-color:red">
  <div style="height:100px;background-color:yellow">
    Yellow div text
  </div>
</div>
```

You need to ensure that the yellow div is centered in the red div. What should you do?

- A. Add the following code to the red di
- B. align-content:center
- C. Add the following code to the red div.Margin:auto
- D. Add the following code to the Yellow di
- E. align-content:center
- F. Add the following code to the Yellow div Margin:auto

**Answer: C**

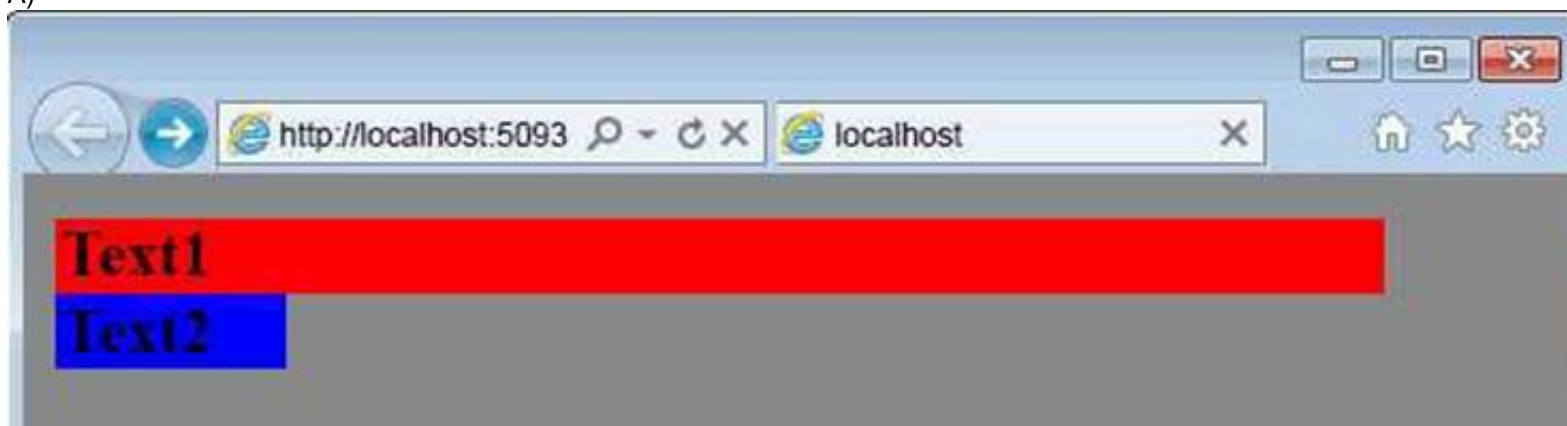
#### NEW QUESTION 356

You have the following HTML code.

```
<html>
<body style="background-color:grey">
  <span style="background-color:red; width:50%">
    Text1
  </span>
  <div style="background-color:blue; width:50%">
    Text2
  </div>
</body>
</html>
```

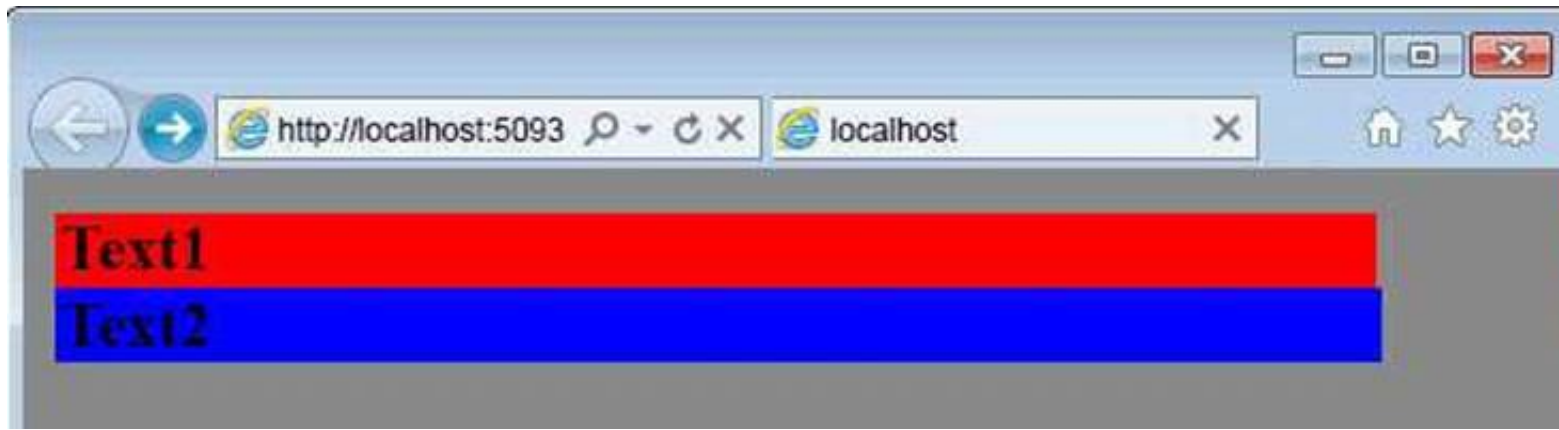
You need to identify how Text1 and Text2 will be displayed. What should you identify?

A)

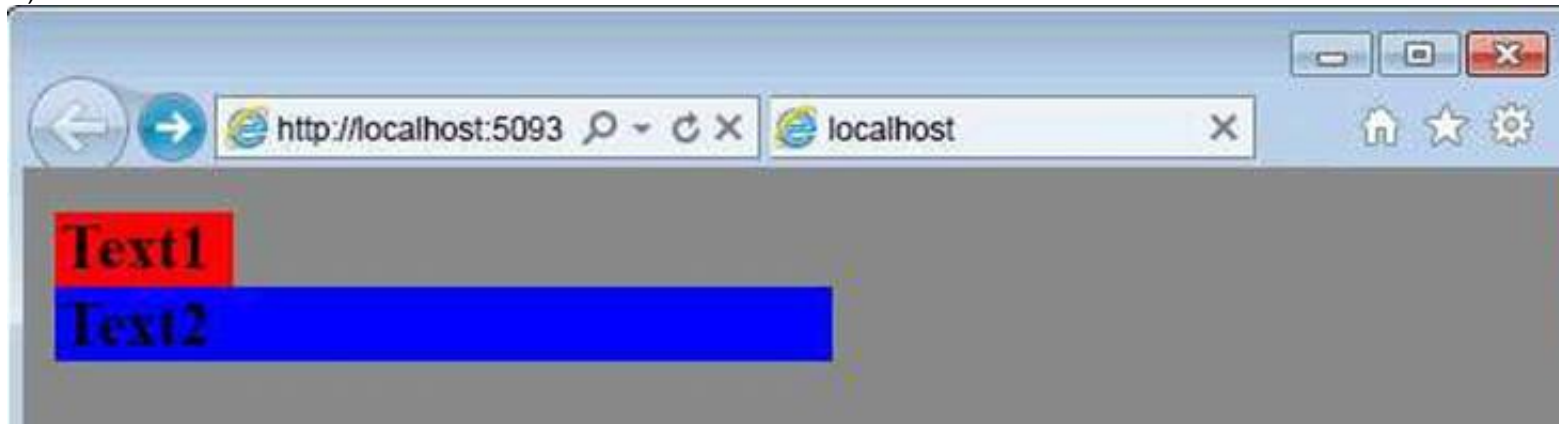


B)

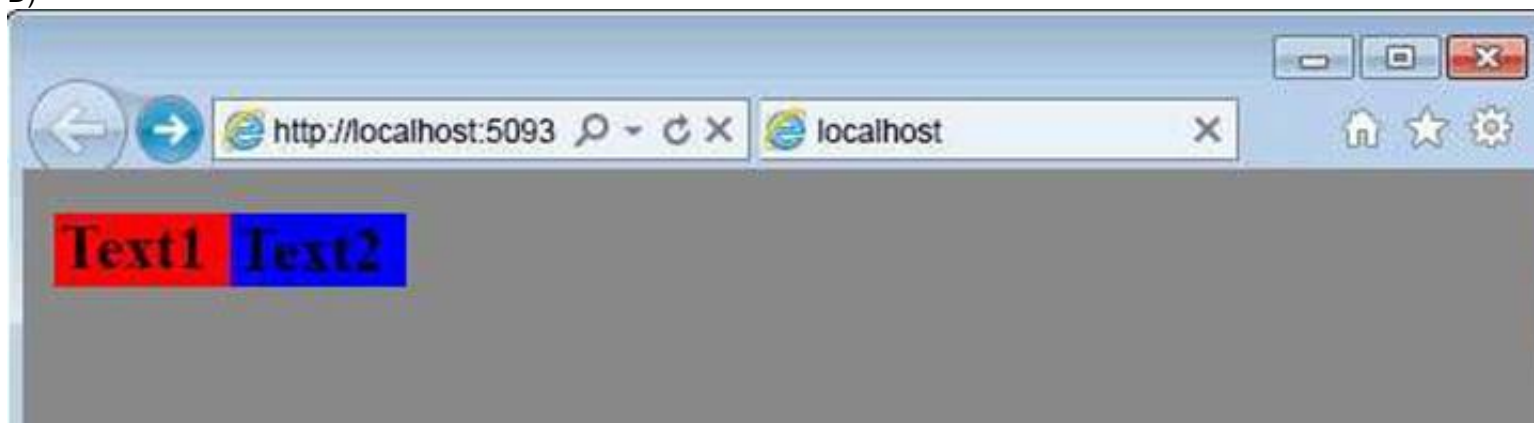




C)



D)



- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer: D**

**Explanation:**

References: [https://www.quackit.com/html\\_5/tags/html\\_span\\_tag.cfm](https://www.quackit.com/html_5/tags/html_span_tag.cfm) [https://www.quackit.com/html\\_5/tags/html\\_body\\_tag.cfm](https://www.quackit.com/html_5/tags/html_body_tag.cfm)  
[https://www.quackit.com/html\\_5/tags/html\\_div\\_tag.cfm](https://www.quackit.com/html_5/tags/html_div_tag.cfm)

## NEW QUESTION 359

### HOTSPOT

You are developing an application in HTML5. You have the following HTML markup.

```
<div id="div1">
  <div id="div2">
    <div id="div3" onclick="Validate1()">
      <label id="userNameLabel" for="userName">User Name:</label>
      <input type="text" id="userName" onclick="Validate2()" />
    </div>
  </div>
</div>
```

You have the following JavaScript code.

```
$("#userName").click(function (event) {
  event.stopPropagation();
});
```

Use the drop-down lists to select the answer choice that completes each statement.

**[answer choice]** will be called when the user clicks the userName text box.

	▼
event.stopPropagation	
Validate1	
Validate2	

**[answer choice]** will be called when the user clicks the userNameLabel label.

	▼
event.stopPropagation	
Validate1	
Validate2	

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

**[answer choice]** will be called when the user clicks the userName text box.

	▼
event.stopPropagation	
Validate1	
Validate2	

**[answer choice]** will be called when the user clicks the userNameLabel label.

	▼
event.stopPropagation	
Validate1	
Validate2	

#### NEW QUESTION 361

You would like to create a web application by using HTML5, JavaScript, and CSS3. Which of the following Visual Studio 2012 editions can you use? (Choose all that apply.)

- A. Visual Studio Professional 2012
- B. Visual Studio Premium 2012
- C. Visual Studio Ultimate 2012
- D. Visual Studio Express 2012 for Web
- E. Visual Studio Express 2012 for Windows 8

**Answer:** ABCD

**Explanation:**

References:  
[http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

#### NEW QUESTION 362

You would like to create a Windows 8 application by using HTML5, JavaScript, and CSS3. Which of the following Visual Studio 2012 editions can you use? (Choose all that apply.)

- A. Visual Studio Professional 2012
- B. Visual Studio Premium 2012
- C. Visual Studio Ultimate 2012
- D. Visual Studio Express 2012 for Web
- E. Visual Studio Express 2012 for Windows 8

**Answer:** ABCE

**Explanation:**

References:  
[http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

#### NEW QUESTION 366

You would like to create a Windows 8 application by using Blend and HTML5, JavaScript, and CSS3. Which feature of Blend enables you to pause an application when it reaches a desired state so you can set the style rules for the page and its controls while in this state? (Choose all that apply.)

- A. Assets panel

- B. Projects panel
- C. Visual Design
- D. Interactive mode

**Answer:** CD

**Explanation:**

References:

[http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

**NEW QUESTION 369**

What are the steps for TDD?

- A. Write the passing test, write the code, run the test again to validate that it still passes.
- B. Write the failing test, write the code, run the test again to validate that it passes.
- C. Write the code, write the test to validate that it passes, run the test again to validate that it still passes.
- D. Write the passing test, write the code, break the code, run the test again to validate that it fails.

**Answer:** B

**Explanation:**

References: [http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

**NEW QUESTION 373**

Where should your JavaScript code be placed?

- A. In the <head> element of your HTML document.
- B. Just before the </body> tag.
- C. You should always place your JavaScript code in separate files, external to your HTML document.
- D. Inside the <body> element, at the top.

**Answer:** C

**Explanation:**

References: [http://www.daoudisamir.com/references/vs\\_ebooks/html5\\_css3.pdf](http://www.daoudisamir.com/references/vs_ebooks/html5_css3.pdf)

**NEW QUESTION 375**

NOTE: This question is a part of series of questions that presents the same scenario. Each question in the series contains unique solution that might meet the started goals. Some questions sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section. you will not be able to return to it. As a result, these questions will not appear in the review screen.

You have the following HTML5 and CSS3 markup within a webpage.

```
<nav id="mainmenu" class="page-nav">

    <div id="navlist" class="container">

        <a href="index.html">Home</a>

        <a href="register.html">Register</a>

    </div>

</nav>
```

You need to set the background color of the Home link to yellow. The solution can affect the color of the other elements.

Solution: You use the following style:

```
<style>

    #navlist::first-line{

        background-color: yellow;

    }

</style>
```

Does this meet the goal?

- A. Yes
- B. No

**Answer:** B

**NEW QUESTION 377**

.....



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