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Programming in HTML5 with JavaScript and CSS3

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QUESTION NO: 1

You have the following markup.

```
<div id="yellow" style="background-color:yellow">My Yellow Content</div>
<div id="blue" style="background-color:blue">My Blue Content</div>
<div id="red" style="background-color:red">My Red Content</div>
```

You need to change the markup programmatically to display as follows:



Which line of code should you use?

- A. `document.getElementById("blue").style.display = "none"`
- B. `$("#blue").css("visibility", "collapse");`
- C. `document.getElementById("blue").style.visibility = "hidden"`
- D. `$("#blue").css("display", "hidden");`
- E. `document.getElementById ("blue").style.visibility = "hidden"`

ANSWER: A

Explanation:

Reference: https://www.w3schools.com/CSSref/pr_class_display.asp

QUESTION NO: 2

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 D

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: https://www.w3schools.com/jsref/met_element_addeventlistener.asp <http://help.dottoro.com/ljeuqqog.php>
<http://help.dottoro.com/ljinxrmt.php>

QUESTION NO: 3

You are implementing an application by using HTML5 and JavaScript. A web page contains the following HTML table.

```

<table id="dataTable">
  <tbody>
    <tr><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
    <tr><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
    <tr><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
  </tbody>
  <tfoot>
    <tr class="selected"><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
    <tr class="selected"><td>...</td></tr>
  </tfoot>
</table>

```

The application must:

- Identify all rows in the table body that have a class attribute of selected
- Exclude the last selected row in the table

You need to implement the web page according to the requirements.

Which CSS selector should you use?

- A. `tr:not(tr:last-child).selected < #dataTable`
- B. `#dataTable > tr.selected:not(tr:last-child)`
- C. `#dataTable tbody tr.selected:not(tr:last-child)`
- D. `#dataTable tr.selected:not(tr:last-child)`

ANSWER: C

Explanation:

[attribute]

[target]

Selects all elements with a target attribute

:not(selector) not(p)

Selects every element that is not a

element

References: https://www.w3schools.com/cssref/css_selectors.asp

QUESTION NO: 4

You are developing an HTML5 web application. The application loads data from a web service by using AJAX. The application displays the data by calling the displayData function. The data is loaded by using the following code.

```
var ajax = $.ajax({  
    url: dataUri  
});
```

You need to ensure that the data is displayed when it is successfully retrieved from the web service.

Which code segment should you use?

- A.

```
ajax.always = function (data) {  
    displayData(data);  
};
```
- B.

```
displayData(ajax.data);
```
- C.

```
displayData(ajax.val());
```
- D.

```
ajax.done = function (data) {  
    displayData(data);  
};
```

A. Option A

B. Option B

C. Option C

D. Option D

ANSWER: D

Explanation:

The `deferred.done()` method accepts one or more arguments, all of which can be either a single function or an array of functions. When the Deferred is resolved, the `doneCallbacks` are called. Callbacks are executed in the order they were added. Since `deferred.done()` returns the deferred object, other methods of the deferred object can be chained to this one, including additional `.done()` methods. `$.ajax`

Reference:

<https://api.jquery.com/deferred.done/>

QUESTION NO: 5

You have the following HTML markup within a page that lists the sessions of a conference. (Line numbers are included for reference only.)

```
01 <div class="sessionlist">
02 <h2>Here are our highlighted sessions</h2>
03 <div class="page-section session">
04 <h3 class="sessiontitle">
05 Controlling Manufacturing Costs
06 </h3>
07 <p class="sessionabstract">
08 In this session, we will see how to control manufacturing costs during
09 your product build.
10 </p>
11 <div class="page-section session">
12 <h3 class="sessiontitle">
13 Applying the Finish
14 </h3>
15 <p class="sessionabstract">
16 In this session, we will look at best practices on how to ensure a quality
17 product.
18 </p>
19 </div>
```

You need to use HTML5 to maximize Search Engine Optimization (SEO) for the page.

Which two changes should you make to the markup? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. Replace the div element at lines 03 and 11 with
- B. Replace the div element at line 01 with
- C. Replace the div element at lines 03, 10, 11, and 18 with article elements.
- D. Replace the div element at line 01 with
- E. Replace the div element at line 03 with
- F. Replace the div element at lines 01 and 19 with a section element.

ANSWER: C F

Explanation:

Reference: <https://stackoverflow.com/questions/6939864/what-is-the-difference-between-section-and-div>

QUESTION NO: 6

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: https://developer.mozilla.org/en-US/docs/Web/API/Web_Workers_API/Using_web_workers

QUESTION NO: 7

You develop an HTML5 webpage that contains the following HTML markup:

```
<label for="loanTypes">Loan Types</label>
<select name="loanTypes" id="loanTypes" multiple="multiple">
  <option>Secured</option>
  <option selected="selected">Unsecured</option>
  <option>Demand</option>
  <option selected="selected">Subsidized</option>
</select>
```

The page includes the following JavaScript code:

```
var selectedValues = '';
```

You have the following requirements:

- Retrieve the content for any OPTION elements when the value of the selected attribute equals selected.
- Add the content to a comma separated string.

You need to retrieve the required data.

Which two code segments should you add to the webpage? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- ☐ A. `$("select option:checked").each(function () {
selectedValues += $(loanTypes).text() + ',';
});`
- ☐ B. `$("select option:selected").each(function () {
selectedValues += $(loanTypes).text() + ',';
});`
- ☐ C. `$("select option:selected").each(function () {
selectedValues += $(this).text() + ',';
});`
- ☐ D. `$("#loanTypes option:selected").each(function () {
selectedValues += $(this).text() + ',';
});`
- ☐ E. `$("#loanTypes option:checked").each(function () {
selectedValues += $(loanTypes).text() + ',';
});`

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

ANSWER: C D

Explanation:

Note:

* select option:selected

:selected Selector

Description: Selects all elements that are selected.

QUESTION NO: 8

You have the following markup. (Line numbers are included for reference only.)

```

01 <!DOCTYPE html>
02 <html>
03 <head>
04   <style>
05     div.myclass {
06
07       top: 0;
08       background-color: yellow;
09       border: 5px double red;
10       padding: 10px;
11     }
12   </style>
13 </head>
14 <body>
15   <div class="myclass">Welcome to the Site!</div>
16   <p>Lorem ipsum dolor sit amet,consectetur adipiscing elit.
Vivamus voluptat felis elit, at tincidunt magna eleifend eu. Corabitur
odio nunc, lobortis a consequat vitae, convallis vel ipsum. Nunc
vehicula erat in sollicitudin sollicitudin. Suspendisse ullamcorper
purus eu massa congue aliquam. Nunc a tellus fermentum, gravida mi at,
convallis justo. Sed sollicitudin congue odio, nec imperdiet tortor
pulvinar ut. Fusce viverra, est ut suscipit finibus, nisi ligula ornare
risus, eu ultricies velit ante eu odio. Morbi vehicula suscipit varius.
Etiam sit amet lacus gravida, dictum mi id, luctus tellus. Proin
fermentum euismod justo sit amet feugiat. Aliquam scelerisque leo sit
amet lacus ultrices sagittis. Phasellus et sodales mauris.</p>
17 </body>
18 </html>

```

You need to ensure that the div element remains visible while scrolling.

Which two lines of markup can add at line 06 to achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. `position: sticky;`
- B. `position: fixed;`
- C. `position: absolute;`
- D. `position: relative;`
- E. `position: static;`

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

ANSWER: A B

Explanation:

https://www.w3schools.com/cssref/pr_class_position.asp

QUESTION NO: 9

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

You need to ensure that a value is entered into txtValue before the form is submitted.

Which code segment should you use?

- ☐ A.

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

```
function validate() {  
    var value = $("#txtValue").val();  
    var regex = /^[^\d\,\.\.]*$/;  
    if (!regex.test(value))  
        alert("please enter valid value");  
    return;  
}
```
- ☐ C.

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

```
function validate() {  
    var value = $("#txtValue").get();  
    var regex = /^[A-Za-z]{3}/;  
    if (!regex.test(value) || value == "")  
        alert("please enter valid value");  
    return;  
}
```

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

ANSWER: A

Explanation:

Input Text Object Properties include: value: Setsor returns the value of the value attribute of the text field

Check if text is a null value or an empty string.

References: https://www.w3schools.com/jsref/dom_obj_text.asp

QUESTION NO: 10

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/>

QUESTION NO: 11

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

```
<span id="myTextSpan" class="redText">Hello There!</span>
```

The font color of text inside the span must be red.

You need to develop the web page to meet the requirement.

Which two code segments achieve the goal? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. `$('#id#myTextSpan').css('color', 'red');`
- B. `.redText`
`{`
`color: red;`
`}`
- C. `$('#myTextSpan').css('color', 'red');`
- D. `.myTextSpan`
`{`
`color: red;`
`}`

A. Option A

B. Option B

C. Option C

D. Option D

ANSWER: B C

Explanation:

You can refer to class, by `.redText`, or the span, by `#myTextSpan`.