98-382^{Q&As}

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Introduction to Programming Using JavaScript

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QUESTION 1

HOTSPOT

You are designing a web page that contains a blue button. When the button is pressed, it should call a function that displays the message elcome When the cursor hovers over the button, the button should turn red. When the cursor

leaves the button, the button should revert back to its original color of blue.

You want to complete the markup using the appropriate HTML events.

How should you complete the markup? To answer, select the appropriate event in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```html
<!DOCTYPE html>
<html>
<head>
    <script>

        function showRed()

        {
            var changer = document.getElementById("changer");
            changer.style.backgroundColor = "red";
        }


        function showBlue()

        {
            var changer = document.getElementById("changer");


        }


        function notify()

        {
            alert("Welcome!");
        }
    </script>
</head>
<body>
```

`<input id="changer" type="button"` [▼] `="notify();"` [▼] `="showRed();"`

onchange
onmouseover
onmouseout
onclick

onmouseover
onmousedown
onmouseout
onclick

[▼] `="showBlue();" value="Click Me" style="background-color:blue; color:white;"/>`

onmouseover
onmousedown
onmouseout
onkeydown

```html
</body>
</html>
```

Correct Answer:

Answer Area

```
<!DOCTYPE html>
<html>
<head>
    <script>

        function showRed()

        {
            var changer = document.getElementById("changer");
            changer.style.backgroundColor = "red";
        }

        function showBlue()

        {
            var changer = document.getElementById("changer");


        }

        function notify()

        {
            alert("Welcome!");
        }
    </script>
</head>
<body>
```

```
<input id="changer" type="button"  [ ▼ ]  ="notify();"  [ ▼ ]  ="showRed();"
                                    onchange                onmouseover
                                    onmouseover             onmousedown
                                    onmouseout              onmouseout
                                    onclick                 onclick
```

```
                        [ ▼ ]  ="showBlue();" value="Click Me" style="background-color:blue; color:white;"/>
                        onmouseover
                        onmousedown
                        onmouseout
                        onkeydown
```

```
</body>
</html>
```

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

QUESTION 2

HOTSPOT

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

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
External JavaScript files can be cached.	○	○
Internal JavaScript can be placed between the <head> tags.	○	○
Placing your scripts at the bottom of the page body lets the browser load the other elements of the page first.	○	○
Internal JavaScript uses the tag <script src="internal" type="text/javascript">.	○	○

Correct Answer:

Answer Area

	Yes	No
External JavaScript files can be cached.	◉	○
Internal JavaScript can be placed between the <head> tags.	◉	○
Placing your scripts at the bottom of the page body lets the browser load the other elements of the page first.	◉	○
Internal JavaScript uses the tag <script src="internal" type="text/javascript">.	○	◉

References: http://knowledgehills.com/javascript/external-javascript-syntax-disadvantages.htm
https://www.w3schools.com/js/js_whereto.asp https://www.w3schools.com/tags/att_script_src.asp

QUESTION 3

DRAG DROP

A JavaScript array is initialized as follows:

```
var array = [20, 40, 60, 80];
```

You write the following code to manipulate the array:

```
array.shift();
array.pop();
array.push(10);
array.unshift(100);
```

You need to determine the contents of the array.

Which four elements does the array contain in sequence? To answer, move the appropriate elements from the list of elements to the answer area and arrange them in the correct order.

Select and Place:

Elements		Answer area
10		
20		
40		
60		
80		
100		

Correct Answer:

Elements		Answer area
		100
20		40
		60
		10
80		

References: https://www.bennadel.com/blog/1796-javascript-array-methods-unshift-shift-push-and-pop.htm

QUESTION 4

HOTSPOT

You are creating a function named countdown. The function accepts a single parameter, start, and displays a countdown from that number down to zero in increments of one.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

Hot Area:

Answer Area

```
function countdown(start) {
    for (                          ) {
        console.log(i);
    }
}
```

var i = start;	i<=0;	++i
var i == start;	i<0;	+i
var i <= start;	i>0;	--i
var i < start;	i>=0;	-i

Correct Answer:

Answer Area

```
function countdown(start) {
    for (                          ) {
        console.log(i);
    }
}
```

var i = start;	i<=0;	++i
var i == start;	i<0;	+i
var i <= start;	i>0;	--i
var i < start;	i>=0;	-i

References: https://www.w3schools.com/js/js_operators.asp

QUESTION 5

HOTSPOT

You are designing a web page that contains a list of animals. The web page includes a script that outputs animals from a list.

You create the following HTML to test the script:

```
<p>Animals</p>
<ul>
    <li>Dog</li>
    <li><b>Cat</b></li>
    <li>Lion</li>
</ul>
<p>Click the button to display the animals.</p>
<button onclick="showList()">Show List</button>
<div id="list"></div>
```

You need to create a function that will display the list of animals, including any formatting, in the div element. How should you complete the code? To answer, select the appropriate code segments in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

```
function showList() {
    var list = document.[          ▼]
                    ge:ElementsByTagName("li")
                    ge:ElementsByTagName("ul")
                    ge:ElementsByClassName("li")
                    ge:ElementByClassName("ul")

    for (var i = 0; i < list.length; i++) {
```

```
document [                          ▼]  ("list"). [              ▼]  +=list[i]. [              ▼]
        getElementsByTagName("li")              innerText                      innerText
        getElementsByTagName("ul")              innerHTML                      innerHTML
        getElementsByClassName("li")            textContent                    textContent
        getElementByClassName("ul")
```

Correct Answer:

Answer Area

```
function showList() {
    var list = document.[          ▼]
                    ge:ElementsByTagName("li")
                    ge:ElementsByTagName("ul")    [highlighted]
                    ge:ElementsByClassName("li")
                    ge:ElementByClassName("ul")

    for (var i = 0; i < list.length; i++) {
```

```
document [                          ▼]  ("list"). [              ▼]  +=list[i]. [              ▼]
        getElementsByTagName("li")  [hl]        innerText                      innerText  [hl]
        getElementsByTagName("ul")              innerHTML  [hl]                innerHTML
        getElementsByClassName("li")            textContent                    textContent
        getElementByClassName("ul")
```

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

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