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Vendor:Microsoft

Exam Code:98-382

Exam Name:Introduction to Programming Using
JavaScript

Version:Demo

QUESTION 1

HOTSPOT

You need to evaluate the following code segment. Line numbers are included for reference only.

```
01 var n;  
02 console.log(typeof n);  
03 var a = "3.4";  
04 console.log(typeof a);  
05 var textArray = ["Welcome Back", "Enter a Name", "Incorrect Answer"];  
06 console.log(typeof textArray);  
07 var c = 2.4;  
08 console.log(typeof c);  
09 var tag = null;  
10 console.log(typeof tag);
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code segment.

Hot Area:

Answer Area

What does the `console.log` function on line 02 write to the console?

	▼
string	
array	
object	
number	
undefined	

What does the `console.log` function on line 04 write to the console?

	▼
string	
array	
object	
number	
undefined	

What does the `console.log` function on line 06 write to the console?

	▼
string	
array	
object	
number	
undefined	

What does the `console.log` function on line 08 write to the console?

	▼
string	
array	
object	
number	
undefined	

What does the `console.log` function on line 10 write to the console?

	▼
string	
array	
object	
number	
undefined	

Correct Answer:

Answer Area

What does the `console.log` function on line 02 write to the console?

▼
string
array
object
number
undefined

What does the `console.log` function on line 04 write to the console?

▼
string
array
object
number
undefined

What does the `console.log` function on line 06 write to the console?

▼
string
array
object
number
undefined

What does the `console.log` function on line 08 write to the console?

▼
string
array
object
number
undefined

What does the `console.log` function on line 10 write to the console?

▼
string
array
object
number
undefined

QUESTION 2

DRAG DROP

You are creating a web page that requests a username.

You create the following HTML form:

```
<form id="credentials" action="#" method="get">
  <p>Username: <input type="text" id="username" /></p>
  <input type="button" onclick=" getUsername()" value="Submit">
</form>
```

You need to write a function that retrieves the username from the form.

How should you complete the code? To answer, drag the appropriate code segments to the correct locations. Each function 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.

NOTE: Each correct selection is worth one point.

Select and Place:

Code Segments

document	firstChild	forms	HTMLDocument
innerHTML	value	window	

Answer Area

```
function getUsername() {
  var username = [ ] . [ ] .credentials.username. [ ] ;
  alert('Welcome, ' + username);
}
```

Correct Answer:

Code Segments

	firstChild		HTMLDocument
	value	window	

Answer Area

```
function getUsername() {
  var username = document . forms .credentials.username. innerHTML ;
  alert('Welcome, ' + username);
}
```

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
80		10

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

QUESTION 4

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

```
<!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"`

▼
onchange
onmouseover
onmouseout
onclick

`= "notify();" "`

▼
onmouseover
onmousedown
onmouseout
onclick

`= "showRed();" "`

▼
onmouseover
onmousedown
onmouseout
onkeydown

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

```
</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"
  <table border="1" data-bbox="398 574 550 638" style="display: inline-table; vertical-align: middle; margin: 0 10px;">
|  |
| --- |
| onchange |
| onmouseover |
| onmouseout |
| onclick |


  ="notify();"
  <table border="1" data-bbox="658 574 810 641" style="display: inline-table; vertical-align: middle; margin: 0 10px;">
| onmouseover |
| onmousedown |
| onmouseout |
| onclick |


  ="showRed();"

  <table border="1" data-bbox="158 658 310 731" style="display: inline-table; vertical-align: middle; margin: 0 10px;">
| onmouseover |
| onmousedown |
| onmouseout |
| onkeydown |


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

</body>
</html>
```

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

QUESTION 5

DRAG DROP You are creating a web page with a script. The script will insert the window's location inside the page's input element. How should you complete the code? To answer, drag the appropriate code segment to the correct locations. Each code segment 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.

Select and Place:

Code Segments

- window
- location
- document
- getElementById

Answer Area

```
<!DOCTYPE html>
<html>
<body>
  <input id="url" type="input" />
  <script>
    [ ] . [ ] ("url").value = [ ] . [ ] .href;
  </script>
</body>
</html>
```

Correct Answer:

Code Segments

- []
- []
- []
- []

Answer Area

```
<!DOCTYPE html>
<html>
<body>
  <input id="url" type="input" />
  <script>
    document . getElementById ("url").value = window . location .href;
  </script>
</body>
</html>
```

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

QUESTION 6

DRAG DROP

You are creating a web page that tests a user's ability to accurately type text. The validation should be case-insensitive.

How should you complete the code? To answer, drag appropriate functions to the correct locations. Each function 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.

Select and Place:

Code Segments**Answer Area**

```
<!DOCTYPE html>
<html>
<head>
  <script>
    function validate() {
      var input = document.getElementById("tester").  ;
      var text = document.getElementById("userText").  ;
      if(input.  == text.  )
      {
        alert("Success");
      }
    }
  </script>
</head>
<body>
  <p id="userText">When in the course of human events...</p>
  <input type="input" id="tester"; />
  <button onclick="validate()">Validate</button>
</body>
</html>
```

Correct Answer:

Code Segments

Answer Area

```
<!DOCTYPE html>
<html>
<head>
  <script>
    function validate() {
      var input = document.getElementById("tester").  ;
      var text = document.getElementById("userText").  ;
      if(input.  == text.  )
      {
        alert("Success");
      }
    }
  </script>
</head>
<body>
  <p id="userText">When in the course of human events...</p>
  <input type="input" id="tester"; />
  <button onclick="validate()">Validate</button>
</body>
</html>
```

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

QUESTION 7

DRAG DROP

You need to write a loop that will traverse the length of an array to find the value orange. If an array element value is null, the code should immediately go to the next element. When the value is found, the loop should exit.

How should you complete the code? To answer, drag appropriate keywords to the correct locations. Each keyword 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.

Select and Place:

Keywords

Answer Area

-
-
-
-

```
<!DOCTYPE html>
<html>
<head>
<script>
  function doWork() {
    var list = ['apple', 'pear', null, 'orange', 'banana'];
    [ ] (i = 0; i < list.length; i++) {
      if(list[i] == null)
        [ ]
      if(list[i] == 'orange') {
        alert('found');
      }
    }
    console.log(list[i]);
  }
}
</script>
</head>
<body>
  <input type="button" value="test" onclick="doWork()" />
</body>
</html>
```

Correct Answer:

Keywords

Answer Area

-
-
-
-

```
<!DOCTYPE html>
<html>
<head>
<script>
  function doWork() {
    var list = ['apple', 'pear', null, 'orange', 'banana'];
    for [ ] (i = 0; i < list.length; i++) {
      if(list[i] == null)
        [ ]
      if(list[i] == 'orange') {
        alert('found');
      }
    }
    [ ]
    console.log(list[i]);
  }
}
</script>
</head>
<body>
  <input type="button" value="test" onclick="doWork()" />
</body>
</html>
```

QUESTION 8

HOTSPOT

You are using JavaScript to create a function that calculates admission price.

The function must meet the following requirements: The function accepts the age of the customer as a parameter A customer who is less than 5 years old gets in free A customer who is 65 years old or older gets in free A customer who is 5 years old to 17 years old, pays \$10 USD All other customers pay \$20 USD

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 ticketPrice(age) {  
    var price = 20;
```

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

```
if (age <= 5 && age > 65) {  
if (age < 5 && age >= 65) {  
if (age <= 5 || age > 65) {  
if (age < 5 || age >= 65) {  
    price = 0;
```

<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

```
    }  
if (age >= 5 && age < 18) {  
if (age > 5 && age <= 18) {  
if (age >= 5 || age < 18) {  
if (age > 5 || age <= 18) {
```

```
        price = 10;  
    }  
    return price;  
}
```

Correct Answer:

Answer Area

```
function ticketPrice(age) {  
    var price = 20;
```

<input type="checkbox"/>	if (age <= 5 && age > 65) {
<input type="checkbox"/>	if (age < 5 && age >= 65) {
<input type="checkbox"/>	if (age <= 5 age > 65) {
<input checked="" type="checkbox"/>	if (age < 5 age >= 65) {
<input type="checkbox"/>	price = 0;

```
}
```

<input type="checkbox"/>	if (age >= 5 && age < 18) {
<input type="checkbox"/>	if (age > 5 && age <= 18) {
<input type="checkbox"/>	if (age >= 5 age < 18) {
<input checked="" type="checkbox"/>	if (age > 5 age <= 18) {

```
    price = 10;
```

```
}
```

```
return price;
```

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

QUESTION 9

HOTSPOT

You work as a JavaScript developer for Adventure Works. You are writing a simple script that performs the following actions: Declares and initializes an array Fills the array with 10 random integers Adds every other number starting with the first 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

```
var numbers = 

|     |   |
|-----|---|
|     | ▼ |
| 0   |   |
| {}  |   |
| []  |   |
| ... |   |


```

```
for (var i = 0; i < 10; i++) {  
  numbers.

|        |   |
|--------|---|
|        | ▼ |
| pop    |   |
| push   |   |
| sort   |   |
| splice |   |

 (Math.round(Math.abs(Math.random() * 10)));  
}  
var sum = 0;
```

```
for (var j = 0; j < 10; j = 

|     |   |
|-----|---|
|     | ▼ |
| j++ |   |
| j+1 |   |
| j+2 |   |
| j-- |   |

) {
```

```
  sum += 

|            |   |
|------------|---|
|            | ▼ |
| sum[j]     |   |
| numbers[j] |   |
| numbers(j) |   |
| array[j]   |   |

;  
}
```

```
console.log(sum);
```

Correct Answer:

Answer Area

```
var numbers = 

|     |
|-----|
| 0   |
| {}  |
| []  |
| ... |

  
for (var i = 0; i < 10; i++) {  
  numbers.

|        |
|--------|
| pop    |
| push   |
| sort   |
| splice |

 (Math.round(Math.abs(Math.random() * 10)));  
}  
var sum = 0;  
  
for (var j = 0; j < 10; j = 

|     |
|-----|
| j++ |
| j+1 |
| j+2 |
| j-- |

) {  
  
  sum += 

|            |
|------------|
| sum[j]     |
| numbers[j] |
| numbers(j) |
| array[j]   |

;  
  
  console.log(sum);  
}
```

References: https://www.w3schools.com/jsref/jsref_push.asp https://www.w3schools.com/js/js_arrays.asp
<https://stackoverflow.com/questions/9813573/how-to-perform-a-sum-of-an-int-array>

QUESTION 10

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.
  for (var i = 0; i < list.length; i++) {
    document
    ("list").
    +=list[i].

```

Correct Answer:

Answer Area

```

function showList() {
  var list = document.
  for (var i = 0; i < list.length; i++) {
    document
    ("list").
    +=list[i].

```

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

QUESTION 11

HOTSPOT

You are planning to use the Math object in a JavaScript application. You write the following code to evaluate various Math functions:

```
var ceil = Math.ceil(100.5);  
var floor = Math.floor(100.5);  
var round = Math.round(100.5);
```

What are the final values for the three variables? To answer, select the appropriate values in the answer area. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

ceil =

	▼
100	
101	

floor =

	▼
100	
101	

round =

	▼
100	
101	

Correct Answer:

Answer Area

ceil =

	▼
100	
101	

floor =

	▼
100	
101	

round =

	▼
100	
101	

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

QUESTION 12

HOTSPOT

You evaluate the following code:

```
function change(student, course)
{
  student = "JavaScript Student";
  course.name = "JavaScript";
  course.grade = 100;
}

var sampleCourse = { "name": "HTML", "grade": 90 };
var sampleStudent = "HTML Student";

change(sampleStudent, sampleCourse);
console.log(sampleStudent, sampleCourse.name, sampleCourse.grade);
```

You need to determine the values of sampleStudent, sampleCourse.name, and sampleCourse.grade that are output by console.log(). What are the final values for the three variables? To answer, select the appropriate values in the answer area.

Hot Area:

Answer Area

sampleStudent =

	▼
HTML Student	
JavaScript Student	

sampleCourse.name =

	▼
HTML	
JavaScript	

sampleCourse.grade =

	▼
90	
100	

Correct Answer:

Answer Area

`sampleStudent =`

`sampleCourse.name =`

`sampleCourse.grade =`

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