

# 98-382<sup>Q&As</sup>

Introduction to Programming Using JavaScript

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**QUESTION 1**

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](https://www.w3schools.com/js/js_window_location.asp)

**QUESTION 2**

**HOTSPOT**

Your instructor has asked you to write a program that uses simple rules to help determine if a person should take the train, drive their car, or ride a bike, depending on the conditions of the weather and the amount of gas in the car's tank.

The program has the following requirements:

When the temperature is above 65 degrees and it is not raining, the person should be told to ride their bike.

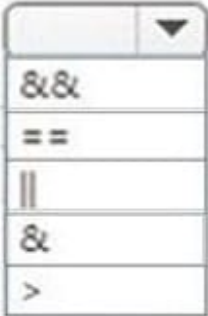

When it is raining, the person should be told to drive their car.

If their car has half a tank of gas or less, they should be told to take the train.

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

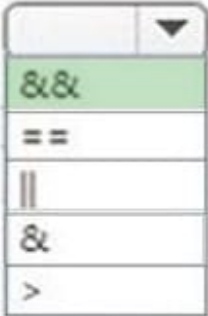

Hot Area:

### Answer Area

```
if(temperature > 65  !raining)
    advice = "Ride Bike";
else if(fuelTank  .5)
    advice = "Take Train";
else
    advice = "Drive your car";
```

Correct Answer:

## Answer Area

```
if(temperature > 65  !raining)  
    advice = "Ride Bike";  
else if(fuelTank  .5)  
    advice = "Take Train";  
else  
    advice = "Drive your car";
```

References: [https://www.w3schools.com/jsref/jsref\\_operators.asp](https://www.w3schools.com/jsref/jsref_operators.asp)

### QUESTION 3

#### HOTSPOT

Variable x has a value of 5. Variable y has a value of 7.

For each of the following expressions, select True if the statement evaluates to true. Otherwise, select False.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

	<b>True</b>	<b>False</b>
<code>x &lt; 7 &amp;&amp; y &gt; 6</code>	<input type="checkbox"/>	<input type="checkbox"/>
<code>x == 6    y == 6</code>	<input type="checkbox"/>	<input type="checkbox"/>
<code>x !== 7</code>	<input type="checkbox"/>	<input type="checkbox"/>
<code>!(x == y)</code>	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

**Answer Area**

	<b>True</b>	<b>False</b>
<code>x &lt; 7 &amp;&amp; y &gt; 6</code>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<code>x == 6    y == 6</code>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<code>x !== 7</code>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<code>!(x == y)</code>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

References: [https://www.w3schools.com/js/js\\_comparisons.asp](https://www.w3schools.com/js/js_comparisons.asp)

**QUESTION 4**

**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/jsref/jsref_push.asp) [https://www.w3schools.com/js/js\\_arrays.asp](https://www.w3schools.com/js/js_arrays.asp)  
<https://stackoverflow.com/questions/9813573/how-to-perform-a-sum-of-an-int-array>

**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.  
  
  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](https://www.w3schools.com/jsref/met_element_getelementsbytagname.asp)