



98-382^{Q&As}

Introduction to Programming Using JavaScript

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QUESTION 1

DRAG DROP

Evaluate the following code. Line numbers are included for reference only.

```
01 var n = 50;  
02 var c = n + 5;  
03 var a = n % 2;  
04 var d = c / 11;  
05 n = d * 2;  
07 console.log(n, c, a, d);
```

What is the value of each variable at line 07? To answer, drag the appropriate value to the correct variable. Each value 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:

Values

0	5	10	55	100	110	25	1
---	---	----	----	-----	-----	----	---

Answer Area

n	<input type="text"/>
c	<input type="text"/>
a	<input type="text"/>
d	<input type="text"/>

Correct Answer:



Values

				100	110	25	1
--	--	--	--	-----	-----	----	---

Answer Area

n	10
c	55
a	0
d	5

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

QUESTION 2

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"
  <table border="1" data-bbox="396 546 549 609">
|  |
| --- |
| onchange |
| onmouseover |
| onmouseout |
| onclick |


  ="notify();"
  <table border="1" data-bbox="656 546 809 612">
| onmouseover |
| onmousedown |
| onmouseout |
| onclick |


  ="showRed();"

  <table border="1" data-bbox="156 630 311 702">
| 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"
  onchange = "notify();"
  onmouseover = "showRed();"
  onmousedown = "showBlue();" value="Click Me" style="background-color:blue; color:white;"/>
</body>
</html>
```

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

QUESTION 3

You are creating a dynamic HTML page by using JavaScript.

Your page has an image of the sun. When the user's mouse pointer moves across the image of the sun, the image should change to the image of the moon. When the user's mouse pointer is no longer over the image should change back to



the image of the sun.

You need to write the code for the image swap.

Which two events must you program for? (Choose two.)

- A. onmouseup
- B. onmouseout
- C. onmousedown
- D. onmouseover
- E. onmouseenter

Correct Answer: BD

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

QUESTION 4

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

	True	False
<code>x < 7 && y > 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

	True	False
<code>x < 7 && y > 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

QUESTION 5

HOTSPOT

The ABC company offers a mid-week discount of 10% on Wednesdays.

You need to write a JavaScript function that meets the following requirements:

Accepts the day of the week as a string

Returns the appropriate discount

You create the following code. Line numbers are included for reference only.

```
01 function getDiscount(day) {  
02     var discount = 0;  
03  
04  
05     discount = .1;  
06     break;  
07  
08     discount = 0;  
09     break;  
10 }  
11 return discount;  
12 }
```



You must complete the code at lines 03, 04, and 07.

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

```
01 function getDiscount(day) {  
02     var discount = 0;
```

03

	▼
case (day) {	
default (day) {	
case (default) {	
switch (day) {	

04

	▼
case "Wednesday":	
default:	
case default:	
switch "Wednesday"	

05

```
    discount = .1;
```

06

```
    break;
```

07

	▼
case "Wednesday":	
default:	
case default:	
switch "Wednesday":	

08

```
    discount = 0;
```

09

```
    break;
```

10

```
}
```

11

```
return discount;
```

12

```
}
```

Correct Answer:



Answer Area

```
01 function getDiscount(day) {  
02     var discount = 0;
```

03

	▼
case (day) {	
default (day) {	
case (default) {	
switch (day) {	

04

	▼
case "Wednesday":	
default:	
case default:	
switch "Wednesday"	

05

```
    discount = .1;
```

06

```
    break;
```

07

	▼
case "Wednesday":	
default:	
case default:	
switch "Wednesday":	

08

```
    discount = 0;
```

09

```
    break;
```

10

```
    }
```

11

```
    return discount;
```

12 }

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

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