



98-382^{Q&As}

Introduction to Programming Using JavaScript

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QUESTION 1

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 =

HTML Student
JavaScript Student

sampleCourse.name =

HTML
JavaScript

sampleCourse.grade =

90
100

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

QUESTION 2

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 3

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.

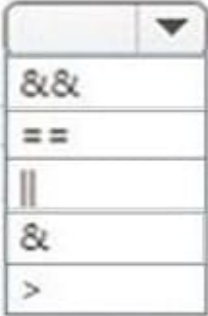
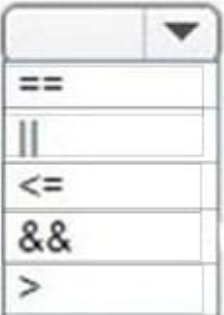
When it is raining, the person should be told to drive their car.

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

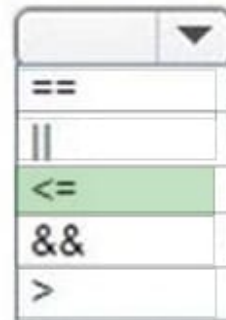
```
if(temperature > 65  !raining)
    advice = "Ride Bike";
else if(fuelTank  .5)
    advice = "Take Train";
else
    advice = "Drive your car";
```

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

QUESTION 4

HOTSPOT

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



```
01 "use strict";
02 var val1 = 25;
03 var val2 = 4;
04 function multiply() {
05     return val1 * val2;
06 }
07
08 console.log("Global multiply returns() : " + multiply());
09 multiply();
10
11 function getProduct() {
12     var val1 = 2;
13     var val2 = 3;
14
15     function multiply() {
16         return val1 * val2;
17     }
18
19     return multiply();
20 }
```

Hot Area:

Answer Area

Yes

No

The call to the `multiply` function on line 09 returns 100.

The call to the `multiply` function on line 19 returns 100.

Correct Answer:

Answer Area

Yes

No

The call to the `multiply` function on line 09 returns 100.

The call to the `multiply` function on line 19 returns 100.

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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