



Mid Course Quiz Assessment - Introduction to Computer Programming

Below is a scored review of your assessment. All questions are shown.



Correct Answer



Partially Correct



Incorrect Answer

61

What does the following code do?

```
var x = 0;  
function foo() {  
  console.log(x);  
}  
var timerId = setInterval(function() {  
  x++;  
  foo();  
  if (x >= 5) {  
    clearInterval(timerId);  
  }  
}, 1000);
```

**Your Answer**

It logs the value of x to the console repeatedly, incrementing it every second, and stops when x is greater than or equal to 5.

**Correct Answer**

It logs the value of x to the console repeatedly, incrementing it every second, and stops when x is greater than or equal to 5.

## Explanation

The `setInterval` function is used to repeatedly execute the anonymous function every second, which increments the value of x, logs it to the console using the `foo` function, and stops the execution of `setInterval` when x is greater than or equal to 5 using `clearInterval`.

62

What will the code below output to the console?

```
let x = 10;  
const byValue = (y) => {  
  y = 20;  
  return y;  
}  
x = byValue(x);  
console.log(x);
```

Your Answer 20

Correct Answer 10

### Explanation

Unlike objects, when primitives are passed to a function only their value is passed, not the reference to the memory location. Therefore, changes to the parameter only affect the parameter in the function's scope.

63

What does the following code do?

```
var x = 0;  
function foo() {  
  x++;  
  console.log(x);  
}  
var timerId = setInterval(foo, 1000);  
setTimeout(function() {  
  clearInterval(timerId);  
}, 5000);
```

**Your Answer**

It logs the value of x to the console repeatedly, incrementing it every second, and stops after 5 seconds.

**Correct Answer**

It logs the value of x to the console repeatedly, incrementing it every second, and stops after 5 seconds.

### Explanation

The `setInterval` function repeatedly executes the `foo` function every second, which increments the value of `x` and logs it to the console. The `setTimeout` function stops the execution of `setInterval` after 5 seconds by using the `clearInterval` function.

## 64 What is the difference between undefined and null in JavaScript?

**Your Answer**

undefined means a variable has not been declared or has been declared but not assigned a value, while null means a variable has been assigned the value of null.

**Correct Answer**

undefined means a variable has not been declared or has been declared but not assigned a value, while null means a variable has been assigned the value of null.

### Explanation

You are Correct !! undefined is used when a variable has not been declared or has been declared but not assigned a value. null is used when a variable has been assigned the value of null.

**65**

Which of the following programming languages is often used for scientific computing and data science?

**Your Answer**

Python

**Correct Answer**

Python

### Explanation

You are Correct !! Python is a popular programming language for scientific computing and data science. It has a large number of libraries and frameworks that are specifically designed for these tasks, such as NumPy, SciPy, and Pandas

**66**

Which of the following is NOT a text editor or IDE (Integrated Development Environment)?

**Your Answer**

Nebrela

**Correct Answer**

Nebrela

### Explanation

You are Correct !! Visual Studio Code, Atom, and Sublime Text are all popular text editors or IDEs used by developers for writing and editing code.

67

What is the output of the following code?

```
setTimeout(function() {  
  console.log('A');  
}, 0);  
setTimeout(function() {  
  console.log('B');  
}, 1000);  
setTimeout(function() {  
  console.log('C');  
}, 500);
```

Your Answer

A C B

Correct Answer

A C B

## Explanation

The `setTimeout` function with a delay of 0 milliseconds schedules the execution of the specified function after the current code execution is finished, so 'A' is logged first. The `setTimeout` function with a delay of 1000 milliseconds logs 'C' after a delay of 1 second, and the `setTimeout` function with a delay of 500 milliseconds logs 'B' after a delay of 0.5 seconds.



68

Recall that functions are objects in JavaScript. What does the following print?

```
function myFunc() {}  
console.log(typeof myFunc);
```

**Your Answer**

function

**Correct Answer**

function

### Explanation

Despite the fact that functions are indeed objects in JavaScript, `typeof myFunc` prints "function".

69

What will be the output of the following code snippet?

```
let i = 0;  
do {  
  console.log(i);  
  i--;  
} while (i < 3);
```

**Your Answer**

Infinite Loop

**Correct Answer**

Infinite Loop

### Explanation

Here as the condition is i-- so the loop will never exit and It will create an infinite loop

**70**

Can an if-else statement be nested inside another if-else statement in JavaScript?

**Your Answer**

Yes, there is no limit to the number of levels of nesting.

**Correct Answer**

Yes, there is no limit to the number of levels of nesting.

### Explanation

An if-else statement can contain any valid JavaScript code, including another if-else statement. This allows for multiple levels of nesting, although it can make code more difficult to read and understand if used excessively.

**71** What is the difference between `setTimeout()` and `setInterval()`? Select two options.

**Your Answer**

`setTimeout` executes once after a specified time has elapsed  
`setInterval` executes repeatedly with a given delay between executions

**Correct Answer**

`setTimeout` executes once after a specified time has elapsed  
`setInterval` executes repeatedly with a given delay between executions

### Explanation

`setTimeout` executes once after a specified time has elapsed as well as executes repeatedly with a given delay between executions.

72

What is the output of the following code?

```
var x = 0;  
setTimeout(function() {  
  console.log(x);  
}, 0);  
x++;  
setTimeout(function() {  
  console.log(x);  
}, 0);
```

**Your Answer**

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**Correct Answer**

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### Explanation

The output will be 1 1 because both `console.log(x)` statements are executed asynchronously after the current synchronous code block, and by that time, the value of `x` has been incremented to 1.

73

What is the output of the following code?

```
let person = {  
  name: "John",  
  age: 30  
};  
let clone = Object.assign({}, person);  
clone.age = 25;  
console.log(person.age);
```

Your Answer 30

Correct Answer 30

### Explanation

The `Object.assign()` method is used to copy the values of all enumerable properties from one or more source objects to a target object. In this case, we copy the properties of the `person` object into a new object (`{}`), and then modify the `age` property of the new object. The `person` object is not modified.

74

What will be the output of the following code snippet?

```
let str = 'hello';  
let newStr = str.replace('l', 'L');  
console.log(newStr);
```

Your Answer                      heLlo

Correct Answer                    heLLO

### Explanation

The `replace()` method returns a new string with some or all matches of a pattern replaced by a replacement. In this code, it replaces the first "l" character in the string with "L", so the output will be "heLLO".

75

What will the code below output to the console and why?

```
const obj = {  
  a: 1,  
  b: 2  
};  
const arr = [];  
console.log(arr[0] = { ...obj });
```

Your Answer

{a: 1, b: 2}

Correct Answer

{a: 1, b: 2}

### Explanation

In this code, the spread syntax `{ ...obj }` creates a new object that contains the properties `a` and `b` from `obj`. This new object is then assigned as the first element of the `arr` array using the index notation `arr[0] = ...`.



## 76 What are some popular JavaScript frameworks?

**Your Answer** Angular, React, Vue.js

**Correct Answer** Angular, React, Vue.js

### Explanation

You are Correct !! Angular, React, and Vue.js are some of the most popular JavaScript frameworks used for building user interfaces and managing state in web applications.

77

What will be the output of the following code snippet?

```
let str = "JavaScript";  
let res = str.slice(0, 4) + str.slice(4).toUpperCase();  
console.log(res);
```

**Your Answer**

"JavaScript"

**Correct Answer**

"JavaScript"

## Explanation

The slice() method extracts a section of a string and returns it as a new string, without modifying the original string. In this case, the first slice extracts "Java", and the second slice converts "Script" to uppercase. The result is "JavaScript".

**78** Which primitive data type in JavaScript is used to represent non-numeric values?

**Your Answer** String

**Correct Answer** String

### Explanation

You are Correct !! The String data type is used to represent non-numeric values, while the Number data type is used to represent numeric values.

**79**What is the result of the following expression:  $5 > 3$  ? "yes" : "no";**Your Answer** "yes"**Correct Answer** "yes"

### Explanation

You are Correct !! The expression  $5 > 3$  evaluates to true, so the first expression ("yes") is evaluated and returned.

**80**

Which of the following is NOT a way to declare a variable in JavaScript?

**Your Answer**

def

**Correct Answer**

def

### Explanation

You are Correct !! 'def' is not a valid way to declare a variable in JavaScript. The three valid ways are 'let', 'var', and 'const'

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