



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

**21** What happens if the condition in an if-else statement is not a boolean value in JavaScript?

**Your Answer** The code block inside the if statement will execute.

**Correct Answer** The code block inside the if statement will execute.

### Explanation

In JavaScript, the condition in an if-else statement is evaluated as a boolean value. However, if the condition is not a boolean value, it will be automatically coerced into a boolean using the Boolean() function. Any non-zero number, non-empty string, and non-null object are coerced to true, while zero, an empty string, null, undefined, and NaN are coerced to false.

22

What will be the output of the following code snippet?

```
let str = 'hello world';  
let newStr = str.indexOf('o');  
console.log(newStr);
```

Your Answer 4

Correct Answer 4

### Explanation

The `indexOf()` method returns the index within the calling string of the first occurrence of the specified value, or -1

23

What is the output of the following code?

```
var x = 0;  
setTimeout(function() {  
  x++;  
}, 1000);  
setTimeout(function() {  
  console.log(x);  
}, 2000);
```

Your Answer 1

Correct Answer 1

### Explanation

The output will be **1** because the first `setTimeout` increments `x` after 1 second, and the second `setTimeout` logs the updated value of `x` to the console after 2 seconds.

## 24 What is the output of the following switch statement?

```
var x = "Hello";  
switch (x) {  
  case "Hello":  
    console.log("Greeting");  
  case "Goodbye":  
    console.log("Farewell");  
  default:  
    console.log("Other");  
}
```

**Your Answer** Greeting, Farewelll, Other

**Correct Answer** Greeting, Farewelll, Other

### Explanation

Since the first case statement matches the value of x, it will execute and "Greeting" will be printed to the console. However, since there are no break statements, execution will fall through to the second case statement, which will also execute and "Farewell" will be printed to the console. Finally, since there is no break statement in the default case, "Other" will also be printed to the console.

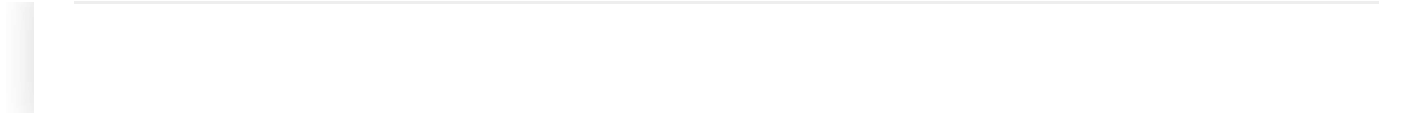
**25** Which of the following commands is used to install dependencies in a Node.js project?

**Your Answer** npm install

**Correct Answer** npm install

### Explanation

You are Correct !! The npm install command is used to install dependencies in a Node.js project. It reads the package.json file in the project directory and installs all the dependencies listed in the dependencies section.



26

What will be the output of the following code snippet?

```
for (var i = 0; i < 5; i++) {  
  if (i === 2) {  
    continue;  
  }  
  console.log(i);  
}
```

Your Answer                      0,1,3,4

Correct Answer                    0,1,3,4

### Explanation

None.



**27** Which of the following is true about the order of execution in the Event Loop in JavaScript?

**Your Answer** Execution can be sequential or out of order, depending on the code

**Correct Answer** Execution can be sequential or out of order, depending on the code

### Explanation

The order of execution in the Event Loop in JavaScript can be sequential or out of order, depending on the code and the presence of asynchronous operations.

**28** What is the result of the following expression: `x += 2;`

**Your Answer** Adds 2 to the value of x

**Correct Answer** Adds 2 to the value of x

### Explanation

You are Correct !! The `+=` operator adds a value to a variable and assigns the result to the same variable. In this case, 2 is added to the value of x.

**29**

Which of the following is an example of implicit type conversion in JavaScript?

**Your Answer**`"5"+5`**Correct Answer**`"5"+5`

### Explanation

You are Correct !! Implicit type conversion in JavaScript occurs when the data type of a value is automatically converted by the interpreter, such as when a string is concatenated with a number.

**30** Which of the following methods can be used to determine whether a string contains a specific substring or character?

**Your Answer**                      indexOf()

**Correct Answer**                      indexOf()

### Explanation

The indexOf() method returns the index of the first occurrence of a specified value in a string, or -1 if the value is not found. This method can be used to determine whether a string contains a specific substring or character.

31

What will be the output of the following code snippet?

```
for (let i = 0; i < 3; i++) {  
  for (let j = 0; j < 2; j++) {  
    console.log(i, j);  
  }  
}
```

**Your Answer** 0,0,0,1,1,0,1,1,2,0,2,1

**Correct Answer** 0,0,0,1,1,0,1,1,2,0,2,1

### Explanation

None.

**32** Which of the following data types in JavaScript is not a primitive data type?

**Your Answer** Object

**Correct Answer** Object

### Explanation

You are Correct !! While objects are not primitive data types in JavaScript, they are a built-in data type that can be used to store collections of data.

33

What will be the output of the following code snippet?

```
let str = 'hello';  
let newStr = str.split('').reverse().join('');  
console.log(newStr);
```

Your Answer

olleh

Correct Answer

olleh

### Explanation

The `split()` method splits a string object into an array of strings by separating the string into substrings. The `reverse()` method reverses an array in place. The `join()` method joins all elements of an array into a string. In this code, it splits the string into an array of characters, reverses the order of the array, and joins the characters back into a string, so the output will be "olleh".

**34** Which loop in JavaScript allows code to execute at least once, even if the condition is false?

**Your Answer** do-while loop

**Correct Answer** do-while loop

### Explanation

The do-while loop in JavaScript allows code to execute at least once, even if the condition is false. In this loop, the code block is executed first and then the condition is checked. If the condition is true, the code block is executed again, otherwise the loop is terminated.



35

What will be the output of the following code snippet?

```
var i = 0;
while (i < 5) {
  i++;
  if (i === 3) {
    continue;
  }
  console.log(i);
}
```

**Your Answer** 1,2,3,4,5

**Correct Answer** 1,2,4,5

### Explanation

The while loop executes while the condition is true. In this case, the loop starts with  $i = 0$  and increments  $i$  on each iteration. The continue statement is used to skip the current iteration of the loop when  $i$  is equal to 3. Therefore, the output is 1, 2, 4, 5.

**36**

What is the commonly used programming language for developing Android applications?

**Your Answer**

Kotlin

**Correct Answer**

Kotlin

### Explanation

None.

**37** Which of the following is not a valid way to define a function in JavaScript?

**Your Answer** `class myFunc {}`

**Correct Answer** `class myFunc {}`

### Explanation

In JavaScript, functions can be defined using the function keyword, function expressions, and arrow functions. However, a function cannot be defined using the class keyword. Therefore, option d is not a valid way to define a function in JavaScript.

**38** Which of the following methods can be used to remove whitespace from both ends of a string?

**Your Answer**                      `trim()`

**Correct Answer**                      `trim()`

### Explanation

The `trim()` method removes whitespace from both ends of a string.

39

What is the output of the following code?

```
let person = {  
  name: "John",  
  age: 30,  
  get fullName() {  
    return `${this.name} Smith`;  
  },  
  set fullName(value) {  
    [this.name, this.surname] = value.split(" ");  
  }  
};  
person.fullName = "Jane Doe";  
console.log(person.name);
```

Your Answer

"Jane"

Correct Answer

"Jane"

### Explanation

The fullName property is defined as a getter and setter. When we set the fullName property to "Jane Doe", it calls the setter function, which splits the string into two parts and assigns them to this.name and this.surname. Therefore, person.name is "Jane".

**40** Which of the following operators has the highest precedence in JavaScript?

**Your Answer** \*

**Correct Answer** \*

### Explanation

You are Correct !! In JavaScript, the order of evaluation of arithmetic expressions is determined by operator precedence. The \* operator has the highest precedence, followed by / and %, and then + and -.



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