

Revolutionizing the Job Market

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30 mins

JavaScript 3 hours, 30 mins

Variables And Data Types 15 mins

MCQ Practice 1 10 mins

Operators And Conditional Flow 10 mins

MCQ Practice 2 10 mins

DOM And Events 15 mins

MCQ Practice 3 10 mins

Arrays and Objects 25 mins

MCQ Practice 4 10 mins

Interview Questions

Recently Asked Questions and Answers

1. Explain global and local variables in JavaScript?

Local Variables:

Local variables are variables that are defined within functions. They have *local scope*, which means that they can only be used within the functions that define them.

Global Variables:

Global variables are variables that are defined outside of functions. These variables have *global scope*, so they can be used in any function without passing as arguments.

2. What are the differences between let and const variables in JS?

let	const
<code>let</code> is used for variable declaration. Variables declared with the <code>let</code> can change its values	Variables declared with the <code>const</code> maintain constant values. <code>const</code> declarations share some similarities with <code>let</code> declarations

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2. What are the differences between let and const variables in JS?

let	const
let is used for variable declaration. Variables declared with the let can change its values	Variables declared with the const maintain constant values. CONST declarations share some similarities with let declarations
let can be updated but not re-declared	const cannot be updated or re-declared
let can be declared without being initialized	const must be initialized during declaration

3. What are variables?

Variables are like containers for storing values. We can create variables using the keywords like let, const, etc.

4. What are global variables?

Global variables are the variables that are available throughout the length of the code without any scope.

5. What are the ways to define a variable in JavaScript?

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5. What are the ways to define a variable in JavaScript?

The three ways to define a variable are:

- **const:** If a variable is declared using `const`, then initialization is mandatory. Once the variable is initialized with a value, then it can't be reassigned and it will have the block scope.
- **let:** If a variable is declared using `let`, then initialization is not mandatory. This variable can be reassigned and it will have the block scope.
- **var:** If a variable is declared using `var`, then initialization is not mandatory. This variable can be reassigned and redeclared. Before executing the code, all the variable declarations are processed at first.

6. What are the differences between var and let?

basis of comparison	var	let
Scope	Variables declared with <code>Var</code> are scoped to the immediate function body (Function Scope)	variables declared with <code>let</code> are scoped to the immediate enclosing block denoted by <code>{}</code> (Block Scope)
Hoisting	Variables declared with <code>Var</code> are hoisted	Variables declared with <code>let</code> are not hoisted. Accessing variables before the declaration results in a Reference Error
Redeclaration	Variables can be redeclared	Variables cannot be redeclared

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Q. Explain about the 'var', 'let', and 'const'.

Companies Asked: Growthify Media

let	const	var
If a variable is declared using <code>let</code> then initialization is not mandatory	If a variable is declared using <code>const</code> then initialization is mandatory	If a variable is declared using <code>var</code> then initialization is not mandatory.
The variable can be reassigned	The variable can't be reassigned	The variable can be reassigned and redeclared
The variable will have the block scope	The variable will have the block scope	The variable will have global scope or function scope

← Question 4 of 4

Which of the following variable declarations allow block scoping?

var

let

const

both let and const 



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8. Explain data types in js?

The set of data types in the JavaScript are primitive values and objects.

Examples for primitive data types:

- number
- string
- boolean
- null
- undefined
- symbol
- BigInt

Example for Object data type:

- object

9. Explain about undefined in JS?

Undefined

- If a value is not assigned to the variable, then it takes `undefined` as its value.
- In JS, `undefined` refers to the value that is not being assigned to a variable.

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Arrays and Objects 🕒 25 mins

MCQ Practice 4 🕒 10 mins

10. What are primitive data types in JS?

Primitive Types

- number
- string
- boolean
- null
- undefined
- symbol

Q. What is a String?

String is a stream of characters. The String should be enclosed with Single quotes, Double quotes, or Backticks.

```
⚠ 1 Let name = "John";
```

◀ Question 2 of 2



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Q. What are the differences between null and undefined values?

Companies Asked: Root and Leaves

null	undefined
can be assigned to a variable as a representation of no value. It is used when we intentionally want a variable but don't need a value to it	means a variable has been declared but has not yet been assigned to a value
The datatype of null is object	The datatype of undefined is undefined itself

← Question 3 of 3

What is the datatype of `null` in JavaScript?

Number

String

Object

Undefined

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MCQ Practice 1 (10 mins)

Operators And Conditional Flow (10 mins)

MCQ Practice 2 (10 mins)

DOM And Events (15 mins)

MCQ Practice 3 (10 mins)

Arrays and Objects (25 mins)

MCQ Practice 4 (10 mins)

12. What are the Datastructures in JavaScript?

Data Structures allow us to store and organize data efficiently. This makes us access and performs operations on the data smoothly.

In JavaScript, we have built-in Data Structures like,

- Arrays
- Objects
- Maps
- Sets

13. What are the differences between Primitive Type and Reference Type?

Primitive	Reference
Primitives include Number, String, Boolean, Symbol, Undefined, etc.	References include Objects. i.e arrays, objects, etc.
Primitives are immutable	References are mutable
Primitives are passed by value	References are passed by reference

Q. Explain the JavaScript built in function Split?

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Variables And Data Types 

MCQ Practice 1 

Operators And Conditional Flow

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Arrays and Objects 

MCQ Practice 4 

Q. Explain the JavaScript built in function Split?

Companies Asked: Algonox

The `split` method is used to split a string into an array of substrings and returns the new array.

Syntax: `string.split(separator)`

Here, separator is a string used to separate substring of the string.

Example:

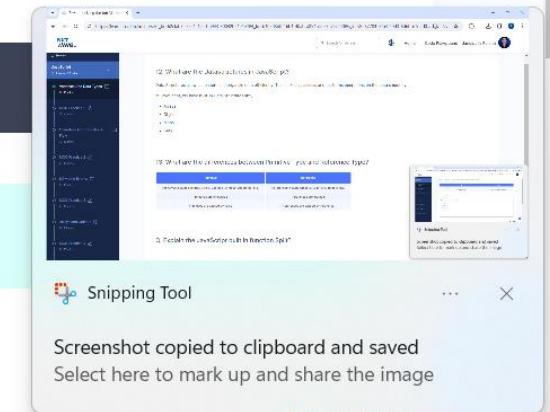
```
1 const string = "How are you doing today?";
2 const result = string.split(" ");
3 console.log(result);
```

Output:

```
1 ["How", "are", "you", "doing", "today?"]
```

Quick Tip

If an empty string ("") is used as the separator, the string is split by each character.



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MCQ Practice 4 10 mins

15. What is the use of the array method join?

The `join` method returns the array as a string. The elements will be joined by a specified separator.

Syntax: `arr.join(separator)`

Here separator is a string used to separate each item of the array. If omitted, the array items are joined with a comma.

JAVASCRIPT

```
1 const fruits = ["Banana", "Orange", "Apple", "Mango"];
2 const energy = fruits.join();
```

Output:

```
1 Banana,Orange,Apple,Mango
```

16. How to remove Whitespaces in a string?

We use the `trim` method to remove whitespace from both ends of a string.

Example:

JAVASCRIPT

```
1 const greeting = "Hello world! ";
2 console.log(greeting);
3 console.log(greeting.trim()); // Output: Hello world!
```

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Q. Explain the JavaScript built in function Replace.

Companies Asked: Algonox

The JavaScript `replace()` function is a built-in method used for replacing text within a string. It takes two arguments: a search pattern and a replacement value.

Syntax:

```
i 1 string.replace(searchValue, replaceValue)
```

JAVASCRIPT

- `searchValue` is the string that you want to replace.
- `replaceValue` is the string that will replace the `searchValue`.

When the `searchValue` is a string, only the first occurrence of the pattern will be replaced.

Examples

```
i 1 const originalString = "Hello, world";
2
3 const replacedString = originalString.replace("world", "universe");
4 console.log(replacedString);
5 // Output: "Hello, universe"
6
7 const replacedString2 = originalString.replace("o", "a");
8 console.log(replacedString2);
9 // Output: "Hella, world"
```

JAVASCRIPT

In the first example, we replace the word "world" with "universe", resulting in the string "Hello, universe".

In the second example, we replace the letter "o" with "a". The resulting string is "Hella, world" as only the first occurrence will be replaced.

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🕒 30 mins

Variables And Data Types 🕒 15 mins

🕒 10 mins

🕒 25 mins

🕒 10 mins

Q. Write the code to remove the space in "welcome to india".

Companies Asked: Algonox

There are different ways to remove the space in the string "welcome to india" using Python:

1. Using split() and join() methods

JAVASCRIPT

```
1 const sentence = "welcome to India";
2 const withoutSpaces = sentence.split(" ").join("");
3
4 console.log(withoutSpaces); // Output: "welcometoIndia"
```

2. Using for loop

JAVASCRIPT

```
1 var inputString = "welcome to india";
2 var stringWithoutSpace = '';
3 for (var i = 0; i < inputString.length; i++) {
4   if (inputString[i] !== ' ') {
5     stringWithoutSpace += inputString[i];
6   }
7 }
8 console.log(stringWithoutSpace); // Output: "welcometoIndia"
```

3. Using the replaceAll() method

JAVASCRIPT

```
1 var inputString = "welcome to india";
```

✓ Completed

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3. Using the replaceAll() method

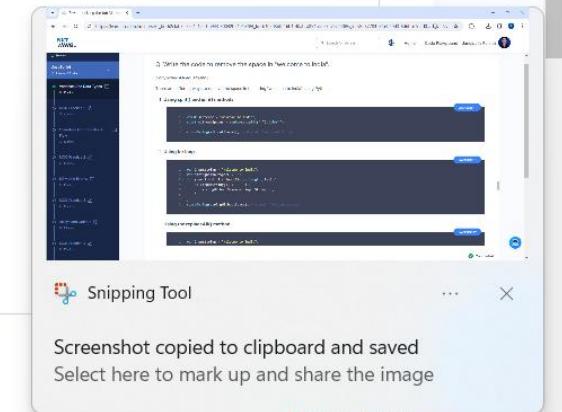
JAVASCRIPT

```
1 var inputString = "welcome to india";
2 var stringWithoutSpace = inputString.replaceAll(' ', '');
3 console.log(stringWithoutSpace); // Output: "welcometoindia"
```

← Question 5 of 5

In the second method mentioned for removing spaces from a string using a for loop, which of the following conditions is used to check whether a character is a space or not?

- inputString[i] === ''
- inputString[i] != ''
- inputString[i] = ''
- inputString[i] == ''



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Q. Write the code to remove all spaces from the phone number.

Companies Asked: Growthify Media

There are different ways to remove all spaces from a phone number using JavaScript:

1. Using split() and join() methods

JAVASCRIPT

```
1 const phoneNumber = "123 456 7890";
2 const withoutSpaces = phoneNumber.split(" ").join("");
3
4 console.log(withoutSpaces); // Output: "1234567890"
```

2. Using for loop

JAVASCRIPT

```
1 var phoneNumber = "123 456 7890";
2 var numberWithoutSpace = '';
3 for (var i = 0; i < phoneNumber.length; i++) {
4   if (phoneNumber[i] !== ' ') {
5     numberWithoutSpace += phoneNumber[i];
6   }
7 }
8 console.log(numberWithoutSpace); // Output: "1234567890"
```

3. Using the replaceAll() method

JAVASCRIPT

```
1 const phoneNumber = "123 456 7890";
2 const withoutSpaces = phoneNumber.replaceAll(" ", "");
```

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10 mins

MCQ Practice 2 

10 mins

DOM And Events 

15 mins

MCQ Practice 3 

10 mins

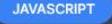
Arrays and Objects 

25 mins

MCQ Practice 4 

10 mins

8 `console.log(numberWithoutSpace); // Output: "1234567890"`

3. Using the replaceAll() method 

1 `var phoneNumber = "123 456 7890";`
2 `var numberWithoutSpace = phoneNumber.replaceAll(' ', '');`
3 `console.log(numberWithoutSpace); // Output: "1234567890"`

← Question 4 of 4

What is the code to remove all spaces from a string using the replaceAll method?

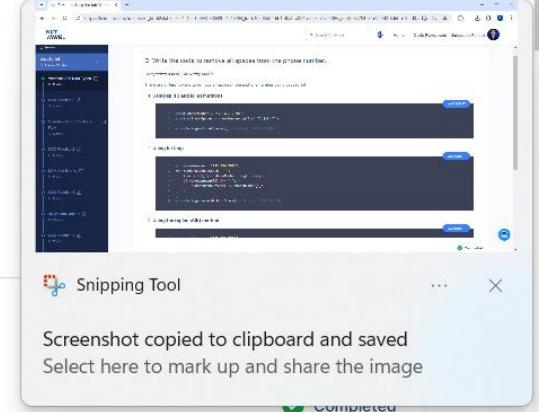
`phoneNumber.replaceAll(' ', '')`

`phoneNumber.replaceAll(' ', '')`

`phoneNumber.replace(' ', '')`

`phoneNumber.replace("", "")`

What are the primitive data types in JavaScript?


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Q. What are the primitive data types in JavaScript?

Companies Asked: Root and Leaves

In JavaScript, there are seven primitive data types:

1. Number: Represents both integers and floating-point numbers.

Example:

```
1 Let age = 30;
```

2. String: Represents a sequence of characters.

Example:

```
⚠ 1 Let name = "John";
```

3. Boolean: Represents a true or false value.

Example:

```
1 Let isActive = true;
```

JAVASCRIPT

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4. **Undefined:** Represents a variable that has been declared but not assigned a value.

Example:

```
1 let x;
```

5. **Null:** Represents an intentional absence of value.

Example:

```
1 let y = null;
```

6. **BigInt:** Represents integers larger than $2^{53} - 1$.

Example:

```
⚠ 1 let bigNum = 1234567890123456789012345678901234567890n;
```

7. **Symbol:** Represents a unique, immutable value primarily used as object property keys.

Example:

```
1 const sym = Symbol('description');
```

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7. Symbol: Represents a unique, immutable value primarily used as object property keys.

Example:

```
const sym = Symbol('description');
```

JAVASCRIPT

Each type has its own set of operations and uses, but they are all immutable and passed by value.

← Question 4 of 4

What is the data type of the variable `age` in the following code?

```
Let age = 30;
```

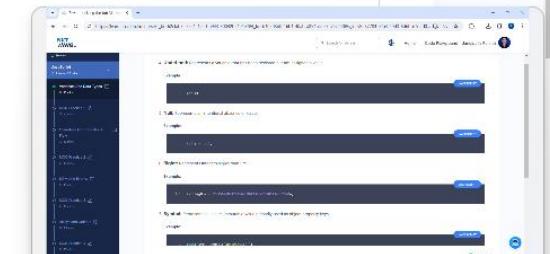
JAVASCRIPT

Number

String

Boolean

Undefined



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JavaScript > Operators And Conditional Flow

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- MCQ Practice 2 10 mins

Recently Asked Questions and Answers

1. Write examples for addition and subtraction operators in JavaScript?

The `addition operator (+)` adds numbers:

Example:

JAVASCRIPT

```
1 const x = 5;
2 const y = 2;
3 const z = x + y; // z = 7
```

The `subtraction operator (-)` subtracts numbers:

Example:

JAVASCRIPT

```
1 const x = 5;
2 const y = 2;
3 const z = x - y; // z = 3
```



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JavaScript 3 hours, 30 mins

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MCQ Practice 2 10 mins

2. What are the different Operators in JavaScript?

Assignment Operators

Name	Shorthand operator	Meaning
Assignment	$x = f()$	$x = f()$
Addition assignment	$x += f()$	$x = x + f()$
Subtraction assignment	$x -= f()$	$x = x - f()$
Multiplication assignment	$x *= f()$	$x = x * f()$
Division assignment	$x /= f()$	$x = x / f()$
Remainder assignment	$x %= f()$	$x = x \% f()$

Comparison operators

Operator	Description
Equal (==)	Returns true if the operands are equal.
Not equal (!=)	Returns true if the operands are not equal.
Strict equal (===)	Returns true if the operands are equal and of the same type.
Strict not equal (!==)	Returns true if the operands are of the same type but not equal, or are of a different type.
Greater than (>)	Returns true if the left operand is greater than the right operand.
Greater than or equal (>=)	Returns true if the left operand is greater than or equal to the right operand.
Less than (<)	Returns true if the left operand is less than the right operand.
Less than or equal (<=)	Returns true if the left operand is less than or equal to the right operand.

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Comparison operators

Operator	Description
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Less than (<)	Returns true if the left operand is less than the right operand.
Less than or equal (<=)	Returns true if the left operand is less than or equal to the right operand.

Arithmetic operators

Operator	Description
+	Adds the operands
-	Subtracts the operands
*	Multiplies the operands

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Arithmetic operators

Operator	Description
+	Adds the operands
-	Subtracts the operands
*	Multiplies the operands
/	Divides the operands

Logical Operators

Operator	Usage	Description
Logical AND (&&)	expr1 && expr2	Returns expr1 if it can be converted to false else returns expr2. Thus, when used with Boolean values, && returns true if both operands are true else returns false.
Logical OR ()	expr1 expr2	Returns expr1 if it can be converted to true else returns expr2. Thus, when used with Boolean values, returns true if either operand is true; if both are false, returns false.
Logical NOT (!)	!expr	Returns false if its single operand that can be converted to true else returns true.

Conditional (ternary) operator

It takes three operands.

Syntax:

```
1. condition ? val1 : val2;
```

JAVASCRIPT

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Logical OR (||) expr1 || expr2 Returns expr1 if it can be converted to true else returns expr2. Thus, when used with Boolean values, || returns true if either operand is true; if both are false, returns false.

Logical NOT (!) !expr Returns false if its single operand that can be converted to true else returns true.

Conditional (ternary) operator

It takes three operands.

Syntax:

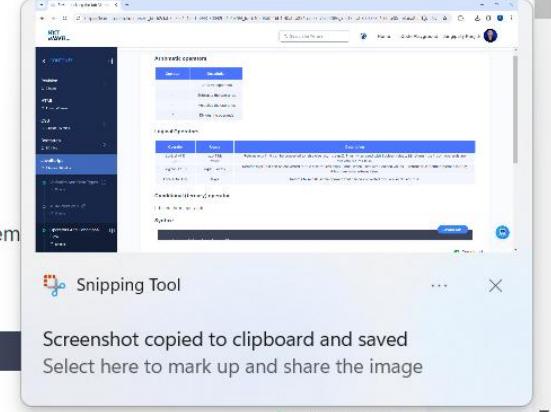
```
1 condition ? val1 : val2;
```

If a condition is true, the operator has the value of val1. Otherwise, it has the value of val2.

3. Why does comparing two similar objects return false in JavaScript?

- JavaScript compares objects and primitives differently.
- In primitives, it compares them by value while in objects it compares them by reference or the address in memory.

Example:



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3. Why does comparing two similar objects return false in JavaScript?

- JavaScript compares objects and primitives differently.
- In primitives, it compares them by value while in objects it compares them by reference or the address in memory where the variable is stored.

Example:

JAVASCRIPT

```
1 let a = { a: 1 };
2 let b = { a: 1 };
3 let c = a;
4
5 console.log(a === b); // Output: false (even though they have the same property)
6 console.log(a === c); // Output: true
```

- That's why the first `console.log` statement returns `false` and the second `console.log` statement returns `true`. `a` and `c` have the same reference while `a` and `b` are not.

4. What is the difference between loose equal to (==) and strict equal to (===)?

Loose equal to (==)

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 - ⌚ 15 mins
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 - ⌚ 10 mins
 - Operators And Conditional Flow []
 - ⌚ 10 mins

4. What is the difference between loose equal to (==) and strict equal to (===)?

Loose equal to (==)

Loose equality compares two values for equality but doesn't compare type of values.

Strict equal to (===)

Strict equality compares two values for equality including type of values.

Example:

JAVASCRIPT

```
1 console.log(2 == "2"); // Output: true
2 console.log(2 === "2"); // Output: false
```

Question 5 of 5 ←

What is the output of the given code?

JAVASCRIPT

```
1 console.log(1 === "1")
```

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Q. What is the output of `console.log(2 == "2") , console.log(2 === "2") ?`

- `console.log(2 == "2")` will print `true`.
- `console.log(2 === "2")` will print `false`.

In JavaScript,

Loose equality operator (`==`), performs type conversion if the types of the two operands are different.

On the other hand, strict equality operator (`===`), checks both the value and the type of the operands without performing any type conversion.

← Question 3 of 3

What is the output of the given code?

JAVASCRIPT

```
i 1 console.log(2 == "2")
```

true
 false
 "2"



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5. What does JavaScript use instead of `==` and `!=`?

JavaScript uses `===` and `!==` instead of `==` and `!=`.

`==` and `!=` compares also the types of values whereas `==` and `!=` doesn't.

6. What is a Switch case?

A `Switch` statement is a conditional statement like `if...else` statement used in decision making. The switch statement executes a block of code depending on different cases.

It evaluates an expression. The value of the expression is then compared with the values of each case in the structure. If there is a match, the associated block of code is executed.

Syntax:

JAVASCRIPT

```
1 - switch(expression) {  
2   case n:  
3     code block  
4     break;
```

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It evaluates an expression. The value of the expression is then compared with the values of each case in the structure. If there is a match, the associated block of code is executed.

Syntax:

JAVASCRIPT

```
1 - switch(expression) {  
2   case n:  
3     code block  
4     break;  
5   case n:  
6     code block  
7     break;  
8   default:  
9     default code block  
10 }
```

- The `break` keyword stops the execution.
- The `default` keyword specifies some code to run if there is no case match. There can only be one `default` keyword in a `switch`.

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7. What are the differences between if...else and switch statements?

basis for comparison	if...else	switch
Basic	Which statement will be executed depend upon the output of the expression inside if statement	Which statement will be executed is decided by user
Expression	if...else statement uses multiple statement for multiple choices	switch statement uses single expression for multiple choices
Testing	if...else statement test for equality as well as for logical expression	switch statement test only for equality
Evaluation	if statement evaluates integer, character, pointer or floating-point type or boolean type	switch statement evaluates only character or integer value
Sequence of Execution	Either if statement will be executed or else statement is executed	switch statement execute one case after another till a break statement is appeared or the end of switch statement is reached
Default Execution	If the condition inside if statements is false, then by default the else statement is executed if created	If the condition inside switch statements does not match with any of cases, for that instance the default statements is executed if created

8. What are the Conditional Statements in JavaScript?

The Conditional Statements allow you to execute a block of code only when a specific condition is true.

If...Else Statement

 Battery saver ... X

Battery saver is on
Consider plugging in your device.

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The Conditional Statements allow you to execute a block of code only when a specific condition is true.

If...Else Statement

Move notification to Notification Center ... X

Battery saver ... X

Battery saver is on
Consider plugging in your device.

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8. What are the Conditional Statements in JavaScript?

The Conditional Statements allow you to execute a block of code only when a specific condition is true.

If...Else Statement

```
JAVASCRIPT
1 * if (conditionA) {
2   code to run if condition is true;
3 }
4 * else if (conditionB) {
5   code to run if condition is false and else if condition is true;
6 }
7 * else {
8   code to run if condition is false and else if condition is false;
9 }
```

Switch Statement

```
JAVASCRIPT
1 * switch (expression) {
2   case value1:
3     /*Statements executed when the
4      result of expression matches value1*/
5     break;
6   case value2:
7     /*Statements executed when the
8      result of expression matches value2*/
9 }
```

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Switch Statement

JAVASCRIPT

```
1 if (conditionA) {  
2   code to run if condition is true;  
3 }  
4 else if (conditionB) {  
5   code to run if condition is false and else if condition is true;  
6 }  
7 else {  
8   code to run if condition is false and else if condition is false;  
9 }
```

```
10 ...  
11 case valueN:  
12 /*Statements executed when the  
13 result of expression matches valueN*/  
14 break;  
15 default:  
16 /*Statements executed when none of  
17 the values match the value of the expression*/  
18 break;  
19 }
```

What does the II operator do?

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9. What does the || operator do?

- The || or Logical OR operator finds the first truthy expression in its operands and returns it. If all values are falsy, the last operand gets returned.

Example:

```
1 console.log(null || 1 || undefined); // Output: 1
2 console.log('' || false) // Output: false
```

11. What is the output of 10+10 in JS?

```
1 const result = 10 + 10;
2 console.log(result); // Output: 20
3 console.log(typeof result); // Output: number
```

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Q. What is the output of `10+"10"` in JS?

Rephrased Question: What is the output of `console.log(2 + "3")` ?

In JavaScript, when we add a number to a string using the `+` operator, the number is converted to a string, and then the two strings are concatenated.

For the expression `10 + "10"` :

- The number `10` is converted to the string `"10"` .
- The two strings `"10"` and `"10"` are concatenated.

So, the output of `10 + "10"` is `1010` .

Similarly,

For `console.log(2 + "3")` :

- The number `2` is converted to the string `"2"` .
- The two strings `"2"` and `"3"` are concatenated.

So, the output of `console.log(2 + "3")` is `23` .

← Question 3 of 3

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What does the `+` operator denote in the expression `5 + "7"` ?

- Addition
- Subtraction
- Concatenation
- Multiplication

Q. What is the output of `console(10 - "5")` ?

In JavaScript, when you use the `-` operator with a number and a string, the string is attempted to be converted into a number, and then the subtraction operation is performed.

For the expression `10 - "5"` :

- The string `"5"` is converted to the number `5`.
- The subtraction is performed: `10 - 5`.

So, the output of `console.log(10 - "5")` is `5`.

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Q. What is the output of `console(10 - "5")` ?

In JavaScript, when you use the `-` operator with a number and a string, the string is attempted to be converted into a number, and then the subtraction operation is performed.

For the expression `10 - "5"` :

- The string `"5"` is converted to the number `5` .
- The subtraction is performed: `10 - 5` .

So, the output of `console.log(10 - "5")` is `5` .

← Question 3 of 3

When using the `-` operator with a number and a string in JavaScript, what does the interpreter attempt to do?

- Concatenate the number and string.
- Subtract the ASCII value of the string from the number.
- Convert the string to a number and then perform subtraction. ✓
- Throw a `TypeError`.

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 - 10 mins

12. Explain break and continue statements?

Break statement	Continue statement
The <code>break</code> statement is used to jump out of a loop. It can be used to <i>jump out</i> of a <code>switch()</code> statement. It breaks the loop and continues executing the code after the loop.	The <code>continue</code> statement <i>jumps over</i> one iteration in the loop. It breaks iteration in the loop and continues executing the next iteration in the loop.

13. What is the difference between the Spread Operator and Rest Parameter?

Spread Operator: The Spread Operator is used to unpack an iterable (e.g. an array, object, etc.) into individual elements.

Example:

```
JAVASCRIPT
1 let arr1 = [2, 3];
2 let arr2 = [1, ...arr1, 4];
3
4 console.log(arr2); // Output: [1, 2, 3, 4]
```

Rest Parameter: With Rest Parameter, we can pack multiple values into an array.

Example:



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Revision (2 hours)

HTML (1 hour, 40 mins)

CSS (2 hours, 15 mins)

Bootstrap (30 mins)

JavaScript (3 hours, 30 mins)

Variables And Data Types (15 mins)

MCQ Practice 1 (10 mins)

Operators And Conditional Flow (10 mins)

13. What is the difference between the Spread Operator and Rest Parameter?

Spread Operator: The Spread Operator is used to unpack an iterable (e.g. an array, object, etc.) into individual elements.

Example:

```
1 let arr1 = [2, 3];
2 let arr2 = [1, ...arr1, 4];
3
4 console.log(arr2); // Output: [1, 2, 3, 4]
```

JAVASCRIPT

Rest Parameter: With Rest Parameter, we can pack multiple values into an array.

Example:

```
1 function numbers(...args) {
2   console.log(args); // Output: [1, 2, 3]
3 }
4
5 numbers(1, 2, 3);
```

JAVASCRIPT

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8. What is a ternary operator?

Companies Asked: Root and Leaves

A ternary operator is a type of conditional operator that takes three operands: a condition to check, a result for true, and a result for false. It's a shorthand way of writing an `if-else` statement.

Syntax:

```
i 1 condition ? value_if_true : value_if_false
```

Example:

```
1 const age = 15;
2 const is_eligible_voter = (age >= 18) ? "Yes" : "No";
3 console.log(is_eligible_voter); // Outputs: "No"
```

← Question 5 of 5

What does the following piece of JavaScript code denote?

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- Operators And Conditional Flow (10 mins)

Question 5 of 5

What does the following piece of JavaScript code denote?

JAVASCRIPT

```
1 const age = 18;
2 const is_adult = (age >= 18) ? true : false;
```

It checks if age is less than 18

It checks if age is greater than 18

It checks if age is equal to 18

It checks if age is greater than or equal to 18

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JavaScript > DOM And Events

Interview Questions

Recently Asked Questions and Answers

1. Define DOM in JavaScript?

Document Object Model (DOM) is the structured representation of the HTML document created by the browser. It allows JavaScript to manipulate, structure, and style our website.

2. Name some JavaScript DOMs?

Core DOM: standard model for all document types.
XML DOM: standard model for XML documents.
HTML DOM: standard model for HTML documents.

3. What is real DOM?

Real DOM is nothing but DOM. DOM stands for **Document Object Model**. It is a structured representation of the HTML elements that are present in a webpage or web app. It represents the entire UI of your application.



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JavaScript > DOM And Events

4. How do you access the value of an HTML input element in JS?

We can simply use the `value` property of the HTML `input` element to get the value of the text input field.

Example:

JAVASCRIPT

```
1 const inputEl = document.getElementById("myInput");
2 const inputElValue = inputEl.value;
```

5. What are the JavaScript DOM properties?

Some of the JavaScript DOM properties are:

- `classList`
- `id`
- `style`
- `textContent` etc.

6. How to add CSS styles dynamically?

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6. How to add CSS styles dynamically?

We can add styles dynamically by using `setAttribute` and `classList.add` methods.

1. By using `setAttribute` method:

```
1 const paragraphEl = document.getElementById("paragraph");
2 paragraphEl.setAttribute("style", "color:red;");
```

2. By using `classList.add` method:

```
1 .paragraph {
2   color: green;
3 }
```

```
1 paragraphEl.classList.add('paragraph');
```

7. How to add a class to an HTML element dynamically?

The `classList` property can modify the class names dynamically using `add()`, `remove()`, `replace()` and `toggle()` methods.

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7. How to add a class to an HTML element dynamically?

The `classList` property can modify the class names dynamically using `add()`, `remove()`, `replace()` and `toggle()` methods.

Example: Using `classList.add` method

JAVASCRIPT

```
1 const div = document.createElement('div');
2 div.classList.add("anotherclass");
```

8. How to change the background color of an HTML element without using CSS selectors?

Using inline styles

HTML

```
i 1 <div style="background-color: blue">...</div>
```

Using JS

JAVASCRIPT

```
1 let containerEl = document.getElementById("container");
2 containerEl.style.backgroundColor = "blue";
```

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JavaScript > DOM And Events

9. What are the different DOM methods used to access HTML elements from JavaScript?

Some of the DOM methods to access the HTML elements from JavaScript are:

- **getElementsByName('classname')**: Returns all the elements that have the specified class name. It returns an array-like object.
- **getElementById('id')**: Returns the element that has the specified id.
- **getElementsByName('tagname')**: Returns all the elements that have the specified tag name. It returns an array-like object.
- **querySelector()**: Takes CSS style selector as argument and returns the first selected HTML element.

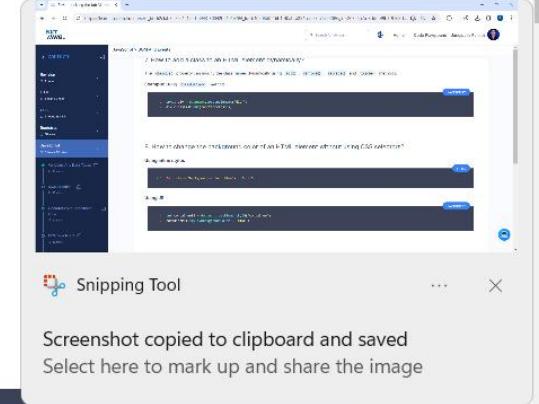
10. What is meant by a DOM Manipulation?

DOM manipulation is interacting with the DOM to change/modify the HTML document that is to be rendered on the web browser. This HTML document can be changed/modified to add elements, remove elements, edit elements, move elements around, etc.

11. How do you create an HTML element in JavaScript?

We can create an HTML element using the DOM method `createElement()`.

Example:



The screenshot shows a browser window with the DOM structure of a page. A snipping tool window is open, displaying the copied screenshot and providing options to mark up and share it.

Screenshot copied to clipboard and saved
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JavaScript > DOM And Events

11. How do you create an HTML element in JavaScript?

We can create an HTML element using the DOM method `createElement()`.

Example:

```
1 let headingEl = document.createElement("h1");
2 headingEl.textContent = "Web Technologies";
```

JAVASCRIPT

12. What is an event?

An HTML **event** can be something the browser does or something a user does.

Some of the examples of HTML events are:

- An HTML web page has finished loading.
- An HTML input field was changed.
- An HTML button was clicked.

13. Explain about an event listener in JS?

An Event Listener listens for events and gets triggered when an event occurs.

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MCQ Practice 1 10 mins ∅

Operators And Conditional Flow 10 mins ✓

MCQ Practice 2 10 mins ∅

JavaScript > DOM And Events

13. Explain about an event listener in JS?

An Event Listener listens for events and gets triggered when an event occurs.

- The `addEventListener()` is modern approach to add an event listener.

Syntax:

JAVASCRIPT

```
element.addEventListener(event, function);
```

- The function is called whenever the described event gets fired.
- Any number of event handlers can be added to a single element without overwriting existing event handlers.

Q: How would you add an event listener in Vanilla JavaScript to a button?

Intent of the interviewer: Are you comfortable attaching event listeners to DOM elements using vanilla JavaScript?

Answer:

I will use the `addEventListener` method to add an event listener to a button. In this method, two arguments are required: one is event name (e.g., 'click') and the other one is callback function to execute when the event occurs.

JAVASCRIPT

```
var button = document.getElementById("myButton");
button.addEventListener("click", function () {
  alert("Button was clicked!");
});
```



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JavaScript > DOM And Events

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Answer:

I will use the `addEventListener` method to add an event listener to a button. In this method, two arguments are required: one is event name (e.g., 'click') and the other one is callback function to execute when the event occurs.

```
JAVASCRIPT
1 var button = document.getElementById("myButton");
2
3 button.addEventListener("click", function () {
4   alert("Button was clicked!");
5});
```

▼ More Info

For example, consider you have the following HTML button:

```
HTML
1 <button id="myButton">Click me!</button>
```

You can add a click event listener to this button using the following JavaScript code:

```
JAVASCRIPT
1 // Select the button element by its ID
2 var button = document.getElementById("myButton");
3
4 // Add an event listener for the 'click' event
5 button.addEventListener("click", function () {
```

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JavaScript > DOM And Events

More Info

For example, consider you have the following HTML button:

```
<button id="myButton">Click me!</button>
```

You can add a click event listener to this button using the following JavaScript code:

```
// Select the button element by its ID
var button = document.getElementById("myButton");

// Add an event listener for the 'click' event
button.addEventListener("click", function () {
  alert("Button was clicked!");
});
```

When the button is clicked, an alert will pop up saying "Button was clicked!".

Note :Vanilla JavaScript is a plain JavaScript. Without any additional frameworks or libraries like "react", "angular" or "vue" etc.

Question 5 of 5

```
});
```

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14. What would be the example for triggering a function when a button is clicked?

HTML

```
1 <!DOCTYPE html>
2 <html>
3   <head></head>
4   <body>
5     <p>Click the following button and see result</p>
6     <button id="button" >Click</button>
7   </body>
8 </html>
```

JAVASCRIPT

```
1 const inputEl = document.getElementById('button');
2
3 inputEl.addEventListener('click', (event) => {
4   console.log("You did it");
5 });
```

15. What is a blur event?

The blur event is triggered when an element has lost focus.

Example:

HTML

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15. What is a blur event?

The blur event is triggered when an element has lost focus.

Example:

HTML

```
1 <!DOCTYPE html>
2 <html>
3   <head></head>
4   <body>
5     <input type="text" id="textInput" placeholder="text input"/>
6     <input type="password" id="passwordInput" placeholder="password"/>
7   </body>
8 </html>
```

JAVASCRIPT

```
1 const inputEl = document.getElementById('textInput');
2
3 inputEl.addEventListener('blur', (event) => {
4   if(event.target.value === "") {
5     event.target.style.background = 'red';
6   } else {
7     event.target.style.background = 'white';
8 }}
```

16. What are the different types of events?

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16. What are the different types of events?

Some of the most common event types and event names are:

- **Mouse Events:** mousedown, mouseup, click, dblclick, mousemove, mouseover, mousewheel, mouseout, contextmenu
- **Touch Events:** touchstart, touchmove, touchend, touchcancel
- **Keyboard Events:** keydown, keypress, keyup
- **Form Events:** focus, blur, change, submit
- **window events:** scroll, resize, hashchange, load, unload

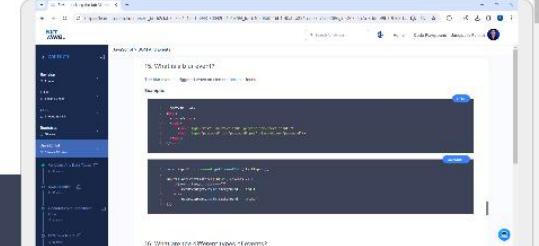
17. What is prevent default method?

The `preventDefault` method prevents the occurrence of default action.

Example:

```
1 let myFormEl = document.getElementById("myForm");
2
3 myFormEl.addEventListener("submit", function (event) {
4     event.preventDefault();
5 });

Here in the form, it prevents the default behaviour of the submit event.
```

 A screenshot of a computer screen showing a browser window. Inside the browser, there is a code editor with some JavaScript code. The code defines a variable 'myFormEl' and adds an event listener to it for the 'submit' event. Inside the event listener, the 'event.preventDefault()' method is called to prevent the default behavior of the form submission. Below the code editor, there is a message: 'Here in the form, it prevents the default behaviour of the submit event.'

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JavaScript > DOM And Events

Q. Define DOM in JavaScript.

Companies Asked: Root and Leaves

Document Object Model (DOM) is the structured representation of the HTML document created by the browser. It allows JavaScript to manipulate, structure, and style our website.

← Question 3 of 3

What is the primary purpose of the DOM in JavaScript?

- Rendering graphics and animations
- Storing data on the server
- Creating structured representations of HTML documents ✓
- Managing databases

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Snipping Tool

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JavaScript > Arrays and Objects

Variables And Data Types 15 mins

MCQ Practice 1 10 mins

Operators And Conditional Flow 10 mins

MCQ Practice 2 10 mins

DOM And Events 15 mins

MCQ Practice 3 10 mins

Arrays and Objects 25 mins

MCQ Practice 4 10 mins

Functions And Storage Mechanism 15 mins

MCQ Practice 5 10 mins

1. What is an array?

An Array holds an ordered sequence of items.

- They are used to store multiple values in a single variable.
- The `typeof` operator in JavaScript returns `object` for arrays.

← Question 4 of 4

In JavaScript, arrays are ordered by:

Alphabetical order of elements

The order in which elements are added (✓)

Numerical order of elements

None of the above

2. How to compare two arrays?

In JavaScript, to compare two arrays,

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JavaScript > Arrays and Objects

2. How to compare two arrays?

In JavaScript, to compare two arrays,

- The length of both the arrays should be the same. The type and value of each item in one array should be compared with the counterpart in another array.
- JavaScript provides a function `JSON.stringify()` in order to convert an object or array into JSON string. By converting into JSON string we can directly check if the strings are equal or not.

3. How can you create an Array in JavaScript?

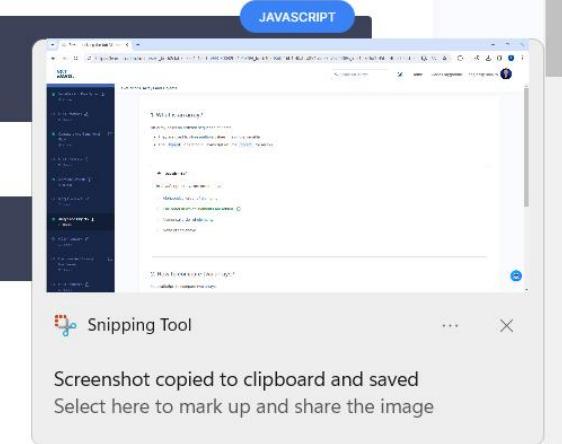
Creating an Array using the Array Literal

```
1 let x = [];
2 let y = [1, 2, 3, 4, 5];
```

Creating an Array using the JavaScript Keyword new

```
1 const evenNumbers = new Array(2, 4, 6);
```

4. Explain about reduce method?



JAVASCRIPT

Snipping Tool

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MCQ Practice 3 10 mins

Arrays and Objects 25 mins

MCQ Practice 4 10 mins

Functions And Storage Mechanism 15 mins

MCQ Practice 5 10 mins

4. Explain about reduce method?

Companies Asked: Root and Leaves

reduce():

The `reduce` method executes a reducer function (that we provide) on each element of the array. It passes in the return value from the calculation on the preceding element.

The result is a single value. It is the result of running the reducer across all elements of the array.

Example:

JAVASCRIPT

```
1 const numbers = [1, 2, 3, 4];
2 const reducer = (previousValue, currentValue) => previousValue + currentValue;
3
4 console.log(numbers.reduce(reducer)); // Output: 10
```

In each step, the reducer function adds the current array element to the result from the previous step until there are no more elements to add.

← Question 6 of 6

Consider the following code:

JAVASCRIPT

```
1 const array = [3,
2 const result = arr
```

What will be the value of `result`?

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JavaScript > Arrays and Objects

4. Explain about map, filter methods?

map():

The `map` method creates a new array with the results of calling the provided function for each array element in order.

Example:

JAVASCRIPT

```
1 const numbers = [1, 2, 3, 4];
2 const result = numbers.map((number) => number * number);
3
4 console.log(result); // Output: [1, 4, 9, 16]
```

filter():

- The `filter` method creates a new array filled with all elements that pass the test (provided as a function).
- A new array with the elements that pass the test will be returned. If no elements pass the test, an empty array will be returned.

Example:

JAVASCRIPT

```
1 const numbers = [1, -2, 3, -4];
2 const positiveNumbers = numbers.filter((number) => number > 0);
3
4 console.log(positiveNumbers); // Output: [1, 3]
```

Q. How to iterate over an array in JavaScript?

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Q. How to iterate over an array in JavaScript?

Companies Asked: Root and Leaves

In JavaScript, there are several ways to iterate over an array. Here are a few examples:

1. forEach() Method

```
1 let array = [1, 2, 3, 4, 5];
2 array.forEach(function(value) {
3   console.log(value);
4 });
```

2. map() Method

```
1 let array = [1, 2, 3, 4, 5];
2 array.map(function(value) {
3   console.log(value);
4 });
```

3. For Loop

```
1 let array = [1, 2, 3, 4, 5];
2 for (let i = 0; i < array.length; i++) {
3   console.log(array[i]);
4 }
```

4. For...of Loop

Feedback

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MCQ Practice 3 10 mins

Arrays and Objects 25 mins

MCQ Practice 4 10 mins

Functions And Storage Mechanism 15 mins

MCQ Practice 5 10 mins

3. For Loop JAVASCRIPT

```
1 let array = [1, 2, 3, 4, 5];
2 for (let i = 0; i < array.length; i++) {
3   console.log(array[i]);
4 }
```

4. For...of Loop JAVASCRIPT

```
1 let array = [1, 2, 3, 4, 5];
2 for (let value of array) {
3   console.log(value);
4 }
```

The `forEach()` and the `map()` are higher-order functions that take a callback function as an argument. The callback function is executed for each item in the array. The difference between them is that `map()` returns a new array based on what is returned from the callback.

← Question 4 of 4

What is the output of the following code?

JAVASCRIPT

```
1 let array = [1, 2, 3, 4,
2 array.map(function(value
3   console.log(value);
```



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The `forEach()` and the `map()` are higher-order functions that take a callback function as an argument. The callback function is executed for each item in the array. The difference between them is that `map()` returns a new array based on what is returned from the callback.

Question 4 of 4

What is the output of the following code?

JAVASCRIPT

```
1 let array = [1, 2, 3, 4,
2 array.map(function(value
3   console.log(value);
4 }));
```

1 2 3 4 5 (Correct)

[1, 2, 3, 4, 5]

undefined

Error

5. What is the use of the push method in JavaScript?

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DOM And Events (15 mins)

MCQ Practice 3 (10 mins)

Arrays and Objects (25 mins)

MCQ Practice 4 (10 mins)

Functions And Storage Mechanism (15 mins)

MCQ Practice 5 (10 mins)

5. What is the use of the push method in JavaScript?

The `push` method adds new items to the end of the array.

6. Write a sample program for map and filter?

Sample program for map:

```
JAVASCRIPT
1 const numbers = [1, 2, 3, 4];
2 const doubled = numbers.map((item) => item * 2);
3 console.log(doubled); // Output: [2, 4, 6, 8]
```

Sample program for filter:

```
JAVASCRIPT
1 const numbers = [1, 2, 3, 4];
2 const evenNumbers = numbers.filter((item) => item % 2 === 0);
3 console.log(evenNumbers); // Output: [2, 4]
```

Q. What is the 'map' method?

Companies Asked: Root and Leaves

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Q. What is the 'map' method?

Companies Asked: Root and Leaves

- Instead of manually iterating over the array using a loop, we can simply use the built-in `map` method.
- The `map` method allows you to iterate over an array and modify its elements using a callback function. The callback function will then be executed on each of the array's elements.

Example:

JAVASCRIPT

```
1 const numbers = [1, 2, 3, 4, 5];
2
3 const incrementedNumbers = numbers.map(number => number + 1);
4
5 console.log(incrementedNumbers); // Output: [2, 3, 4, 5, 6]
```

← Question 4 of 4

In the given code, what will be the value of 'incrementedNumbers'?

JAVASCRIPT

```
1 const numbers = [1, 2, 3, 4, 5];
2
3 const incrementedNumbers = numbers.map(number => r
```

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JavaScript > Arrays and Objects

8. Explain about the array method slice?

The `slice` method returns the selected elements in an array, as a new array.

It returns a portion between the specified start index and end index(end index not included) of an array into a new array.

Syntax: `arr.slice(startIndex, endIndex)`

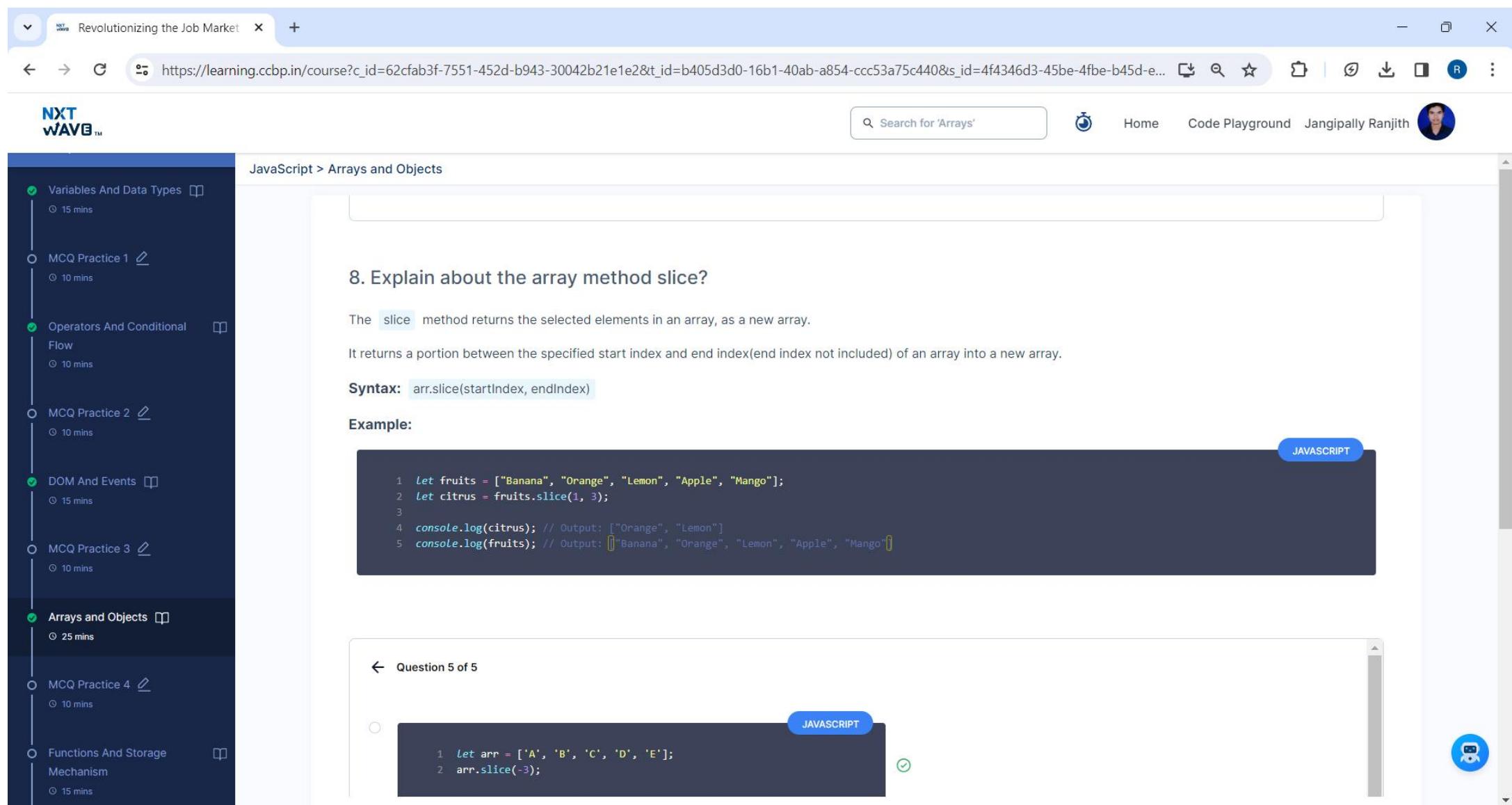
Example:

```
JAVASCRIPT
1 Let fruits = ["Banana", "Orange", "Lemon", "Apple", "Mango"];
2 Let citrus = fruits.slice(1, 3);
3
4 console.log(citrus); // Output: ["Orange", "Lemon"]
5 console.log(fruits); // Output: ["Banana", "Orange", "Lemon", "Apple", "Mango"]
```

← Question 5 of 5

```
JAVASCRIPT
1 Let arr = ['A', 'B', 'C', 'D', 'E'];
2 arr.slice(-3);
```

Checkmark icon



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Arrays and Objects (25 mins)

MCQ Practice 4 (10 mins)

Functions And Storage Mechanism (15 mins)

9. How do you empty an array??

There are several ways to empty an array. The simplest one is to reassign the variable to an empty array.

Examples:

JAVASCRIPT

```
1 let array = [1, 2, 3];
2
3 // Assigning to an empty array
4 array = [];
5
6 // Setting its length property to 0
7 array.length = 0;
8
9 // Using splice with the array's length
10 array.splice(0, array.length);
```

10. What are the most useful JavaScript array methods?

Some of the most useful JavaScript array methods are:

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10. What are the most useful JavaScript array methods?

Some of the most useful JavaScript array methods are:

- **`push()`**
 - The `push` method adds elements to an array at the last position.
- **`pop()`**
 - The `pop` method removes the last element of an array and returns it.
- **`forEach()`**
 - The `forEach` method executes a provided function once for each array element. It always returns undefined.
- **`map()`**
 - The `map` method creates a new array with the results of calling the provided function for every array element.
- **`filter()`**
 - The `filter` method creates a new array filled with all elements that pass the test (provided as a function).
- **`splice()`**
 - The `splice` method changes the contents of an array by removing or replacing existing elements and/or adding new elements.
- **`slice()`**
 - The `slice` method returns a portion between the specified start index and end index(end index not included) of an array into a new array.
- **`shift()`**
 - The `shift` method removes the first element of an array.



Variables And Data Types 15 mins

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Operators And Conditional Flow
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Arrays and Objects 25 mins

MCQ Practice 4 10 mins

Functions And Storage Mechanism 15 mins

The `forEach` method executes a provided function once for each array element. It always returns undefined.

- **`map()`**
 - The `map` method creates a new array with the results of calling the provided function for every array element.
- **`filter()`**
 - The `filter` method creates a new array filled with all elements that pass the test (provided as a function).
- **`splice()`**
 - The `splice` method changes the contents of an array by removing or replacing existing elements and/or adding new elements.
- **`slice()`**
 - The `slice` method returns a portion between the specified start index and end index(end index not included) of an array into a new array.
- **`shift()`**
 - The `shift` method removes the first element of an array.
- **`unshift()`**
 - The `unshift` method adds one or more elements to the beginning of an array.
- **`sort()`**
 - The `sort` method sorts the items of an array and returns the sorted array. The default sort order is ascending.

11. What are the differences between slice and splice?

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11. What are the differences between slice and splice?

Slice	Splice
Doesn't modify the original array(immutable)	Modifies the original array(mutable)
Returns the subset of original array	Returns the deleted elements as array
Used to pick the elements from array	Used to insert or delete elements to/from array

12. Explain about pop and shift methods?

pop():

The `pop` method removes the last element from an array and returns it. The array on which `pop` method is called will be changed.

Example:

```
1 let fruits = ["Apple", "Orange", "Banana", "Strawberry"];
2
```

JAVASCRIPT

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Functions And Storage Mechanism (15 mins)

12. Explain about pop and shift methods?

pop():

The `pop` method removes the last element from an array and returns it. The array on which `pop` method is called will be changed.

Example:

```
1 Let fruits = ["Apple", "Orange", "Banana", "Strawberry"];
2
3 console.log(fruits.pop()); // Output: Strawberry
4 console.log(fruits); // Output: ["Apple", "Orange", "Banana"]
```

shift():

The `shift` method removes an item from the beginning of an array and returns the removed item. The array on which `shift` method is called will be changed.

```
1 Let fruits = ["Apple", "Orange", "Banana", "Strawberry"];
2
3 console.log(fruits.shift()); // Output: Apple
4 console.log(fruits); // Output: ["Orange", "Banana", "Strawberry"]
```

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13. What is the difference between map and forEach methods?

Both of them iterate through the elements of an array. The difference is that the `map` creates a new array while `forEach` doesn't.

14. Which JavaScript methods are used to search for an element in an array?

indexOf():

The `indexOf` method returns the first index at which a given element can be found in an array. It returns `-1` if the element does not exist in the array.

JAVASCRIPT

```
1 const array = [100, 121, 35, 5];
2
3 const indexOfThirtyFive = array.indexOf(35);
4
5 console.log(indexOfThirtyFive); // Output: 2
```

includes():

The `includes` method determines whether an array includes a certain value and returns `true` or `false` as appropriate.

JAVASCRIPT

```
1 const array = [10, 11, 3, 20, 5];
2
3 const includesThirtyFive = array.includes(35);
4
5 console.log(includesThirtyFive); // Output: false
```

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indexOf():

The `indexOf` method returns the first index at which a given element can be found in an array. It returns `-1` if the element does not exist in the array.

JAVASCRIPT

```
1 const array = [100, 121, 35, 5];
2
3 const indexOfThirtyFive = array.indexOf(35);
4
5 console.log(indexOfThirtyFive); // Output: 2
```

includes():

The `includes` method determines whether an array includes a certain value and returns `true` or `false` as appropriate.

JAVASCRIPT

```
1 const array = [10, 11, 3, 20, 5];
2
3 const includesThirtyFive = array.includes(35);
4
5 console.log(includesThirtyFive); // Output: false
```

filter():

We can use the `filter` method to find elements in an array that meet a certain condition.

JAVASCRIPT

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filter():

We can use the `filter` method to find elements in an array that meet a certain condition.

JAVASCRIPT

```
1 const array = [1, 12, 3, 24, 35];
2
3 const equalToThirtyFive = array.filter((element) => element === 35);
4
5 console.log(equalToThirtyFive); // Output: [35]
```

find():

We use the `find` method to find the first element that meets a certain condition. Just like the `filter` method, it takes a callback as an argument and returns the first element that meets the callback condition.

JAVASCRIPT

```
1 const array = [10, 1, 35, 0, 25];
2
3 const equalToThirtyFive = array.find((element) => element === 35);
4
5 console.log(equalToThirtyFive); // Output: 35
```

15. What is the purpose of the splice method?

The `splice` method changes the contents of an array.

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15. What is the purpose of the splice method?

The `splice` method changes the contents of an array.

Remove existing items

Syntax: `arr.splice(Start, Delete Count)`

- Start: Starting Index
- Delete Count: Number of items to be removed, starting from the given index

```
1 let myArray = [5, "six", 2, 8.2];
2 myArray.splice(2, 2);
3
4 console.log(myArray); // Output: [5, "six"]
5
6 let deletedItems = myArray.splice(2, 2);
7
8 console.log(deletedItems); // Output: [2, 8.2]
```

JAVASCRIPT

The `splice()` method returns an array containing the deleted items.

Add new items

Syntax: `arr.splice(Start, Delete Count, Item1, Item2 ...)`

Here the `Item1, Item2 ...` are the items to be added, starting from the given index.

```
1 let myArray = [5, "six", 2, 8.2];
2 myArray.splice(2, 0, "one", false);
```

JAVASCRIPT

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Add new items

Syntax: arr.splice(Start, Delete Count, Item1, Item2 ...)

Here the Item1, Item2 ... are the items to be added, starting from the given index.

JAVASCRIPT

```
1 let myArray = [5, "six", 2, 8.2];
2 myArray.splice(2, 0, "one", false);
3
4 console.log(myArray); // Output: [5, "six", "one", false, 2, 8.2]
```

Replace existing items

Syntax: arr.splice(Start, Delete Count, Item1, Item2 ...)

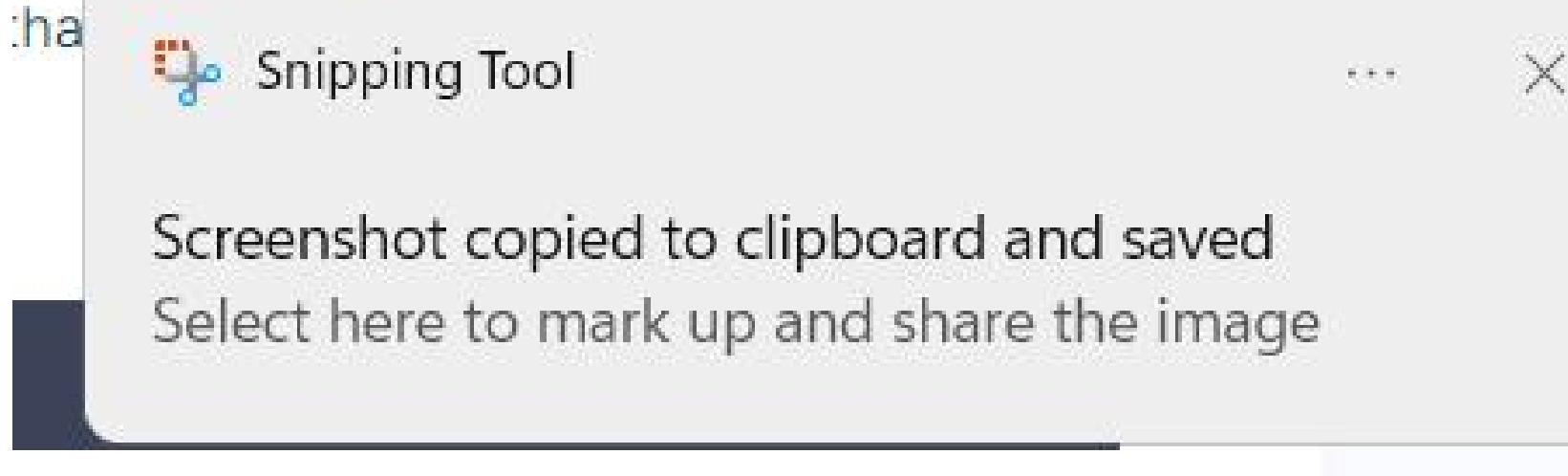
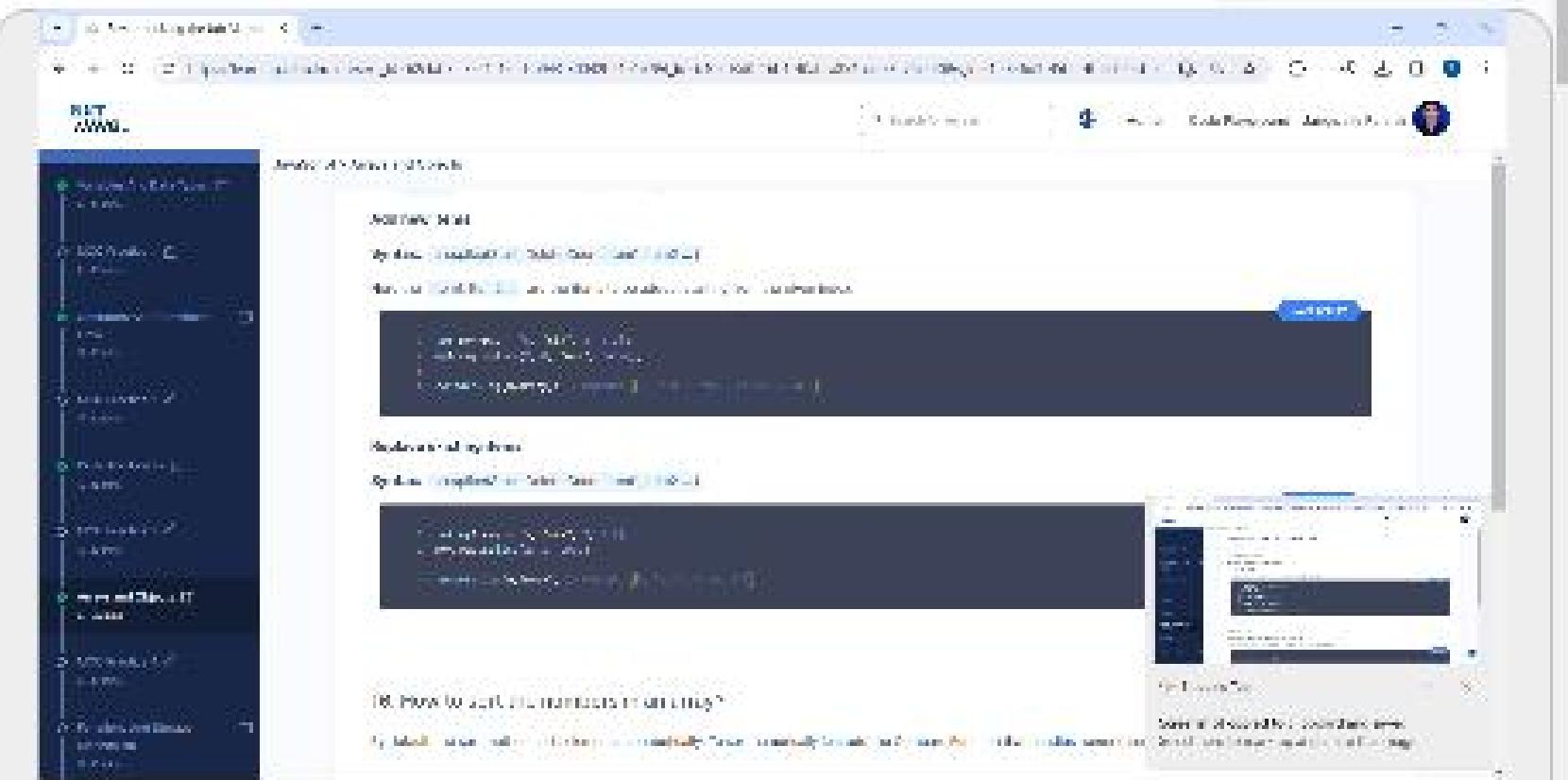
```
1 let myArray = [5, "six", 2, 8.2];
2 myArray.splice(2, 1, true);
3
4 console.log(myArray); // Output: [5, "six", true, 8.2]
```

16. How to sort the numbers in an array?

By default, the sort method sorts elements alphabetically. To sort numerically just add the Compare Function that handles numeric sorting.

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MCQ Practice 4 10 mins

Functions And Storage Mechanism
Mechanism 15 mins

If the result is 0, no changes are done with the sort order of the two values.

Example:

- The compare function compares all the values in the array, two values at a time (a, b).
- When comparing 40 and 100, the `sort` method calls the compare function(40, 100).
- The function calculates $40 - 100$ ($a - b$), and since the result is negative (-60), the `sort` method will sort 40 as a value lower than 100.

Example:

JAVASCRIPT

```
1 Let numArray = [40, 100, 99];
2 numArray.sort(function (a, b) {
3     return a - b;
4 });
5
6 console.log(numArray); // Output: [40, 99, 100]
```

Q. What is the Spread Operator?

Companies Asked: Root and Leaves

Spread Operator: The Spread Operator is used to unpack an iterable (e.g. an array, object, etc.) into individual elements.

Examples:

Spread Operator with Arrays:

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JavaScript > Arrays and Objects

Q. What is the Spread Operator?

Companies Asked: Root and Leaves

Spread Operator: The Spread Operator is used to unpack an iterable (e.g. an array, object, etc.) into individual elements.

Examples:

Spread Operator with Arrays:

```
1 let arr1 = [2, 3];
2 let arr2 = [1, ...arr1, 4];
3
4 console.log(arr2); // Output: [1, 2, 3, 4]
```

JAVASCRIPT

Spread Operator with Objects:

```
1 let person = { name: "Rahul", age: 27 };
2 let personDetails = { ...person, city: "Hyderabad" };
3
4 console.log(personDetails); // Output: {name: "Rahul", age: 27, city: "Hyderabad"}
```

JAVASCRIPT

◀ Question 6 of 6

Variables And Data Types (15 mins)

MCQ Practice 1 (10 mins)

Operators And Conditional Flow (10 mins)

MCQ Practice 2 (10 mins)

DOM And Events (15 mins)

MCQ Practice 3 (10 mins)

Arrays and Objects (25 mins)

MCQ Practice 4 (10 mins)

Functions And Storage Mechanism (15 mins)

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JavaScript > Arrays and Objects

Q. What is an object?

Companies Asked: Root and Leaves

An Object is a collection of properties, and a property is an association between a name (or key) and a value.

Example:

```
const car = {  
  model: "BMW",  
  color: "red",  
  price: 2000,  
};
```

JAVASCRIPT

← Question 3 of 3

What is the output of the given code?

```
const car = {  
  model: "BMW",  
  color: "red",  
  price: 2000,  
};  
  
console.log(car.model)
```

JAVASCRIPT



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JavaScript > Arrays and Objects

17. What is an object and explain object creation?

An Object is a collection of properties, and a property is an association between a name (or key) and a value.

In JavaScript, there are four ways to create an object:

Object Literals:

An object literal also called an object initializer, is a comma-separated set of paired names and values.

JAVASCRIPT

```
1< const car = {  
2   model: "BMW",  
3   color: "red",  
4   price: 2000,  
5 };
```

New operator or constructor:

If we call a function using a new operator, the function acts as a constructor and returns an object.

JAVASCRIPT

```
1< function Car(model, color) {  
2   this.model = model;  
3   this.color = color;  
4 }  
5  
6 let c1 = new Car("BMW", "red");
```

Object.create method

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JavaScript > Arrays and Objects

Object.create method

We can also create new objects using the `Object.create` method, which allows us to specify the prototype object and the properties.

`1. let Car = {
2. model: "BMW",
3. color: "red",
4. };`

JAVASCRIPT

We can use the Car object as a prototype to create another object, as shown below:

`1. let ElectricCar = Object.create(Car);`

JAVASCRIPT

Class

We can use the `class` keyword to create a class in JavaScript instead of a function constructor, and use the `new` operator to create an instance.

`1. class Car {
2. constructor(maker, price) {
3. this.maker = maker;
4. this.price = price;
5. }
6.
7. getInfo() {
8. console.log(this.maker + " costs : " + this.price);
9. }
10.}`

JAVASCRIPT

Variables And Data Types (15 mins)

MCQ Practice 1 (10 mins)

Operators And Conditional Flow (10 mins)

MCQ Practice 2 (10 mins)

DOM And Events (15 mins)

MCQ Practice 3 (10 mins)

Arrays and Objects (25 mins)

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Functions And Storage Mechanism (15 mins)

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Variables And Data Types (15 mins)

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Arrays and Objects (25 mins)

MCQ Practice 4 (10 mins)

Functions And Storage Mechanism (15 mins)

Class

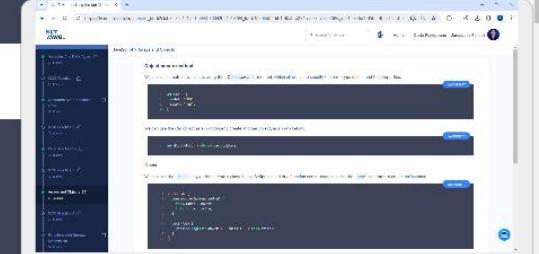
We can use the `class` keyword to create a class in JavaScript instead of a function constructor, and use the `new` operator to create an instance.

JAVASCRIPT

```
1 let ElectricCar = Object.create(Car);  
2  
3 class Car {  
4     constructor(maker, price) {  
5         this.maker = maker;  
6         this.price = price;  
7     }  
8     getInfo() {  
9         console.log(this.maker + " costs : " + this.price);  
10    }  
11}
```

We can use the Car class to create objects as shown below:

```
1 let car1 = new Car("BMW", 100);  
2 car1.getInfo();  
3 let car2 = new Car("Audi", 150);  
4 car2.getInfo();
```


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JavaScript > Arrays and Objects

18. What are object prototypes?

A prototype is a blueprint of an object. The prototype allows us to use properties and methods on an object even if the properties and methods do not exist on the current object.

All JavaScript objects inherit properties from a prototype.

- Date objects inherit properties from the Date prototype.
- Math objects inherit properties from the Math prototype.
- Array objects inherit properties from the Array prototype.

Example:

JAVASCRIPT

```
1 let arr = [];
2 arr.push(2);
3
4 console.log(arr); // Output: [2]
```

19. How to add key-value pair to an object in JavaScript?

There are two possible solutions to add new properties to an object.

Using dot notation: This solution is useful when you know the name of the property.

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JavaScript > Arrays and Objects

19. How to add key-value pair to an object in JavaScript?

There are two possible solutions to add new properties to an object.

Using dot notation: This solution is useful when you know the name of the property.

Example:

```
1. let object = {  
2.   key1: value1,  
3.   key2: value2,  
4. };  
5. object.key3 = "value3";
```

Using square bracket notation: This solution is useful when the name of the property is dynamically determined.

Example:

```
1. let object = {  
2.   key1: value1,  
3.   key2: value2,  
4. };  
5. obj["key3"] = "value3";
```

What is Data Structure?

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DOM And Events (15 mins)

MCQ Practice 3 (10 mins)

Arrays and Objects (25 mins)

MCQ Practice 4 (10 mins)

Functions And Storage Mechanism (15 mins)

Q. What is Destructuring?

Companies Asked: Root and Leaves

Destructuring is a convenient way to extract properties from objects and assign them to variables. For destructuring to work, the variable name should match the key of the object.

Example:

JAVASCRIPT

```
1 Let person = {  
2   firstName: "Rahul",  
3   lastName: "Attuluri",  
4   age: 28,  
5 };  
6  
7 Let { age } = person;  
8  
9 console.log(age); // Output: 28
```

In the above example, we're using destructuring to extract the `age` property from the `person` object. The variable `age` is created and assigned the value of `person.age`. This feature simplifies the code and makes it more readable.

Question 4 of 4

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21. In the arrow functions, what is the significance of 'this' keyword?

In Arrow functions, `this` depends on two aspects:

- When the code is defined
- Context

Arrow function inherits `this` from the context in which the code is defined.

22. What is the use of 'this' keyword in JavaScript?

The `this` keyword allows us to reuse functions in different execution contexts. It means, a function once defined can be invoked for different objects using the `this` keyword.

Q. How to convert an object into an array?

Companies Asked: Root and Leaves

In JavaScript, you can convert an object into an array using `Object.entries` method.

For example:

```
1 let obj = { a: 1, b: 2, c: 3 };
```

JAVASCRIPT

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JavaScript > Arrays and Objects

Q. How to convert an object into an array?

Companies Asked: Root and Leaves

In JavaScript, you can convert an object into an array using `Object.entries` method.

For example:

`1 let obj = { a: 1, b: 2, c: 3 };
2 let array = Object.entries(obj);
3 console.log(array); // [['a', 1], ['b', 2], ['c', 3]]`

Question 5 of 5

What does the `Object.entries` method return?

- An array of the object's keys
- An array of the object's values
- An array of the object's key-value pairs
- The object itself



Variables And Data Types (15 mins)

MCQ Practice 1 (10 mins)

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MCQ Practice 4 (10 mins)

Functions And Storage Mechanism (15 mins)

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JavaScript > Arrays and Objects

Q. Can you convert an Array to an object in Javascript?

Yes, we can use the `for` loop to convert an array to an object in Javascript.

JAVASCRIPT

```
1 let arr = ["red", "green", "blue"];
2 let obj = {};
3
4 for (let i = 0; i < arr.length; i++) {
5   obj[i] = arr[i];
6 }
7
8 console.log(obj);
```

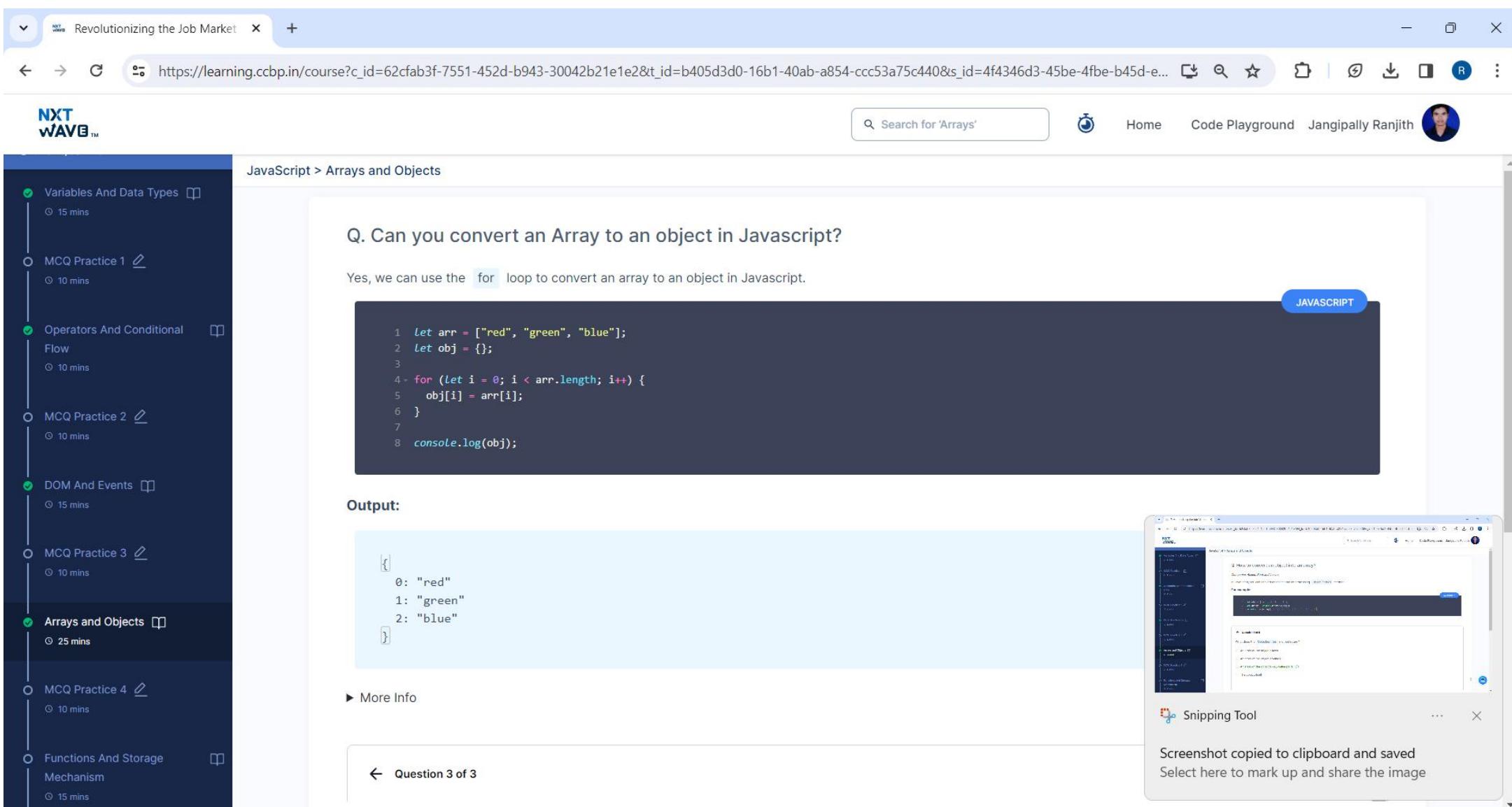
Output:

```
{  
  0: "red"  
  1: "green"  
  2: "blue"  
}
```

More Info

Question 3 of 3

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DOM And Events (15 mins)

MCQ Practice 3 (10 mins)

Arrays and Objects (25 mins) **Current**

MCQ Practice 4 (10 mins)

Functions And Storage Mechanism (15 mins)

More Info

Here are a few more ways:

1. Using a `reduce()` array method:

This method iterates over the array and builds an object with keys and values.

JAVASCRIPT

```
1 const arrayToConvert = ["red", "green", "blue"];
2
3 const convertedObject = arrayToConvert.reduce((obj, item, index) => {
4   obj[index] = item;
5   return obj;
6 }, {});
7
8 console.log(convertedObject);
```

Output:

```
{  
  0: "red"  
  1: "green"  
  2: "blue"  
}
```

2. Using the `Object.assign()` method:

This is another direct way to convert an array into an object, where indices become keys.

JAVASCRIPT

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JavaScript > Arrays and Objects

2. Using the `Object.assign()` method:

This is another direct way to convert an array into an object, where indices become keys.

`JAVASCRIPT`

```
1 let arr = ["red", "green", "blue"];
2 let obj = Object.assign({}, arr);
```

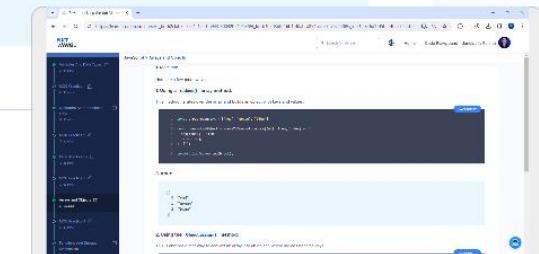
Output:

```
{  
  0: "red"  
  1: "green"  
  2: "blue"  
}
```

Question 3 of 3

```
8 console.log(obj);
```

`JAVASCRIPT`

 A screenshot of a browser window titled 'NXT WAVE'. It shows a code editor with the same code as above. Below it, a terminal window displays the output: { 0: "red", 1: "green", 2: "blue"}. The browser has tabs for 'Home' and 'Code Playground'.

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MCQ Practice 3 10 mins

Arrays and Objects 25 mins

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MCQ Practice 5 10 mins

Asynchronous JS and Error Handling 20 mins

MCQ Practice 6 20 mins

General 20 mins

MCQ Practice 7 20 mins

Interview Questions

Recently Asked Questions and Answers

1. What are the differences between general functions and arrow functions?

Kindly refer to [this](#)

2. Explain JavaScript Functions?

A JavaScript Function is a block of code designed to perform a particular task. A JavaScript function is executed when something invokes it (calls it). We can define the code once, and use it many times. We can use the same code many times with different arguments, to produce different results (**We can reuse code**).

Example:

JAVASCRIPT

```
1 - function myFunction(p1, p2) {  
2   return p1 * p2; // The function returns the product of p1 and p2  
3 }  
4  
5 console.log(myFunction(2, 3)) // Output: 6  
6 console.log(myFunction(5, 8)) // Output: 40
```

✓ Completed

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General 20 mins

MCQ Practice 7 20 mins

3. What are the different types of JavaScript Functions?

- Function declaration (regular function)
- Function expression
- Shorthand method definition
- Arrow function
- Generator function

4. What is a Factory Function?

A Factory function is any function that returns a new object for every function call. The Function name should follow the camelCase naming convention.

Syntax:

JAVASCRIPT

```
1- function functionName(parameter1, parameter2) {  
2-   return {  
3-     property1: parameter1,  
4-     property2: parameter2,  
5-   }  
6- }  
7- let myObject = functionName(arg1, arg2);
```

JAVASCRIPT

```
1- function createCar(color, brand) {  
2-   return {  
3- }
```

✓ Completed

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MCQ Practice 3 (10 mins)

Arrays and Objects (25 mins) **✓**

MCQ Practice 4 (10 mins)

Functions And Storage Mechanism (15 mins) **✓**

MCQ Practice 5 (10 mins)

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General (20 mins)

MCQ Practice 7 (20 mins)

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Syntax:

```
JAVASCRIPT
1. function functionName(parameter1, parameter2) {
2.   return {
3.     property1: parameter1,
4.     property2: parameter2,
5.   }
6. }
7. let myObject = functionName(arg1, arg2);
```

```
JAVASCRIPT
1. function createCar(color, brand) {
2.   return {
3.     color: color,
4.     brand: brand,
5.     start: function() {
6.       console.log("started");
7.     }
8. };
9. }
10.
```

Snipping Tool

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MCQ Practice 3 (10 mins)

Arrays and Objects (25 mins) ✓

MCQ Practice 4 (10 mins)

Functions And Storage Mechanism (15 mins) ✓

MCQ Practice 5 (10 mins)

Asynchronous JS and Error Handling (20 mins)

MCQ Practice 6 (20 mins)

General (20 mins)

MCQ Practice 7 (20 mins)

Let myObject = functionName(arg1, arg2);
};
}
let car1 = createCar("blue", "Audi");
let car2 = createCar("red", "Tata");
let car3 = createCar("green", "BMW");

console.log(car1); // Output: Object { color: "blue", brand: "Audi", start: f() }
console.log(car2); // Output: Object { color: "red", brand: "Tata", start: f() }
console.log(car3); // Output: Object { color: "green", brand: "BMW", start: f() }

JAVASCRIPT

5. What is a Constructor Function?

The Constructor Function is used to create Objects.

It is a regular function that returns a new object on calling with the `new` operator. The created new object is called an **Instance**.

Syntax:

```
function FunctionName(parameter1, parameter2, ...) {  
    this.property1 = parameter1;  
    this.property2 = parameter2;  
    ...  
    ...
```

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MCQ Practice 4 (10 mins)

Functions And Storage Mechanism (15 mins) Completed

MCQ Practice 5 (10 mins)

Asynchronous JS and Error Handling (20 mins)

MCQ Practice 6 (20 mins)

General (20 mins)

MCQ Practice 7 (20 mins)

5. What is a Constructor Function?

The Constructor Function is used to create Objects.

It is a regular function that returns a new object on calling with the `new` operator. The created new object is called an **Instance**.

Syntax:

JAVASCRIPT

```
1 - function FunctionName(parameter1, parameter2, ...) {  
2   this.property1 = parameter1;  
3   this.property2 = parameter2;  
4   ...  
5   ...  
6 }  
7 let myObject = new FunctionName(arg1, arg2, ...)
```

When a function is called with the `new` operator, it does the following steps:

- Creates an empty object and assigns it to `this`
- Return `this`

Example:

JAVASCRIPT

```
1 - function Car(color, brand) {  
2   this.color = color;  
3   this.brand = brand;  
4   this.start = function () {  
5     console.log("started");  
6   };  
7 }
```

Completed

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Arrays and Objects 25 mins Completed

MCQ Practice 4 10 mins

Functions And Storage Mechanism 15 mins Completed

MCQ Practice 5 10 mins

Asynchronous JS and Error Handling 20 mins

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General 20 mins

MCQ Practice 7 20 mins

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- Creates an empty object and assigns it to `this`
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Example:

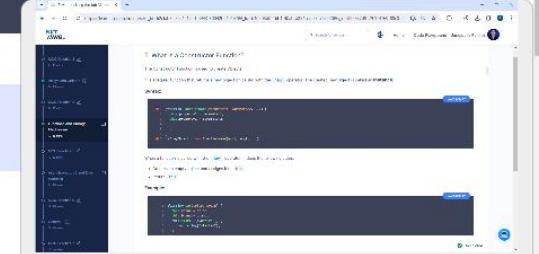
JAVASCRIPT

```
1. function Car(color, brand) {  
2.   this.color = color;  
3.   this.brand = brand;  
4.   this.start = function () {  
5.     console.log("started");  
6.   };  
7. }  
8.  
9. let car1 = new Car("blue", "Audi");  
10. console.log(car1); // Car [object Object]
```

Note

The Function name should follow the PascalCase naming convention.

6. What function is called when two functions have the same name?



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General 20 mins

MCQ Practice 7 20 mins

6. What function is called when two functions have the same name?

The last function is called.

When we define the multiple functions with the same name, then the last defined one will be called. It is called Function Overriding.

JavaScript supports Function Overriding.

7. What is a regular function?

A Regular function is nothing but the Function Declaration.

It is defined by a `function` keyword, followed by a function name, a list of parameters in a pair of parenthesis `(param1, ..., paramN)` and a pair of curly braces `{...}` that contains the function body.

Example:

`function getArrayLength(array) {
 return array.length;
}`

JAVASCRIPT

8. Name any four client-side storages?

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MCQ Practice 7 20 mins

8. Name any four client-side storages?

Client-Side Data Storage is storing the data on the **client** (user's machine).

- Local Storage
- Session Storage
- Cookies
- IndexedDB and many more.

9. What is the size of localStorage?

LocalStorage is limited to about **5MB** and can contain only **strings**.

10. What is local storage and its methods?

The **Local Storage** allows web applications to store data locally within the user's browser. It is a Storage Object. Data can be stored in the form of key-value pairs.

Methods:

setItem(): The `setItem` method can be used for storing data in the Local Storage.

Syntax:

Completed

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Functions And Storage Mechanism (15 mins) Completed

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General (20 mins)

MCQ Practice 7 (20 mins)

10. What is local storage and its methods?

The **Local Storage** allows web applications to store data locally within the user's browser. It is a Storage Object. Data can be stored in the form of key-value pairs.

Methods:

setItem(): The `setItem` method can be used for storing data in the Local Storage.

Syntax:

```
localStorage.setItem("Key", "Value");
```

getItem(): The `getItem` method can be used for getting data from the Local Storage.

Syntax:

```
localStorage.getItem("Key");
```

removeItem(): The `removeItem` method can be used for removing the specified Storage Object item from the Local Storage.

Syntax:

```
localStorage.removeItem("Key");
```

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11. WHETHER THE LOCAL STORAGE VALUES WILL BE DELETED IF WE CLEAR THE CACHE IN BROWSER?

No, the Local Storage values won't be deleted if we clear the cache.

Local Storage values will be deleted,

- When removed the particular key value using the `localStorage.removeItem` method
- When removed the whole Local Storage values using the `localStorage.clear` method
- When cleared the recent history with the cookies from start time in Browser.

12. How do you know the Cookie has expired?

While using the `js-cookie` third-party package, we use `Cookies.get` method to access the cookie.

We can know the Cookie has expired, if the `Cookies.get` methods returns `undefined`.

Example:

JAVASCRIPT

```
1 const token = Cookies.get("jwt_token"); // Assume that there is was a Cookie set with the key "jwt_token" with value the 1234
2
3 if (token === undefined) {
4   console.log("Cookie is expired");
5 }
```

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13. How do you find the present date and time?

We can find the present date and time by using `new Date()` method.

We can create a date object without passing any arguments to the `new Date()` method.

Example:

`1 Let now = new Date();
2
3 console.log(now); // Output: Tue Feb 24 2021 19:10:29 GMT+0530 (India Standard Time)`

JAVASCRIPT

Here, the `new Date()` method creates a new date object with the present date and local time.

14. Name some of the built-in methods in JavaScript?

some of the built-in methods in JavaScript:

Name	Description
<code>ceil()</code>	Returns the smallest integer that is greater than or equal to the given number
<code>concat()</code>	Combines two strings and returns the newer string
<code>constructor()</code>	Returns the function that created the corresponding instance of the object
<code>Date()</code>	Returns the present date and time

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<code>concat()</code>	Combines two strings and returns the newer string
<code>constructor()</code>	Returns the function that created the corresponding instance of the object
<code>Date()</code>	Returns the present date and time
<code>pop()</code>	Removes and returns the last element from an array
<code>slice()</code>	Returns the selected elements in an array, as a new array.

15. What is an arrow function?

An Arrow function is a simple and concise syntax for defining functions.

It is an alternative to a function expression.

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General (20 mins)

MCQ Practice 7 (20 mins)

15. What is an arrow function?

An Arrow function is a simple and concise syntax for defining functions.

It is an alternative to a function expression.

Syntax:

JAVASCRIPT

```
1- let sum = (param1, param2, ...) => {  
2     // statement(s)  
3 };  
4 sum()
```

Example:

JAVASCRIPT

```
1- let sum = (a, b) => {  
2     let result = a + b;  
3     return result;  
4 };  
5 console.log(sum(4, 3)); // Output: 7
```

Q. Why do we use arrow functions?

Companies Asked: Root and Leaves

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Q. Why do we use arrow functions?

Companies Asked: Root and Leaves

An Arrow function is a simple and concise syntax for defining functions.

- It is an alternative to a function expression.
- It inherits `this` from the context in which the code is defined.
- The `return` statement and curly braces are not required for simple expressions.
- If there is only one parameter, then parentheses are not required.

← Question 3 of 3

When are curly braces and the 'return' statement not required in an Arrow Function?

- Curly braces and 'return' statement are always required in Arrow Functions.
- They are not required when the function has no parameters.
- They are not required when the function has a single expression. ✓
- They are not required when using the 'this' keyword.

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Q. What are the date and time functions in JavaScript?

Companies Asked: Growthify Media

In JavaScript, date and time are handled through the `Date` object. Below, find an explanation of some primary date and time functions, accompanied by examples:

1. Date() constructor: It is used to create a new Date object representing the current date and time or a specific date and time.

Example:

JAVASCRIPT

```
1 var currentDate = new Date();
2 console.log(currentDate);
3
4 var specificDate = new Date('2023-09-18');
5 console.log(specificDate);
```

2. getFullYear: This method retrieves the full year from a Date object.

Example:

JAVASCRIPT

```
1 var date = new Date();
2 console.log(date.getFullYear());
```

3. getMonth(): This method gets the month from a Date object, where 0 represents January and 11 represents December.

Example:

JAVASCRIPT

```
1 var date = new Date();
2 console.log(date.getMonth());
```

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General (20 mins)

MCQ Practice 7 (20 mins)

3. `getMonth()`: This method gets the month from a Date object, where 0 represents January and 11 represents December.

Example:

JAVASCRIPT

```
1 var date = new Date();
2 console.log(date.getMonth());
```

4. `getDate()`: This method fetches the day of the month from a Date object.

Example:

JAVASCRIPT

```
1 var date = new Date();
2 console.log(date.getDate());
```

5. `getDay()`: Retrieves the day of the week, where 0 is Sunday and 6 is Saturday.

Example:

JAVASCRIPT

```
1 var date = new Date();
2 console.log(date.getDay());
```

6. `getHours()` , `getMinutes()` , `getSeconds()` and `getMilliseconds()` : These methods retrieve the hours, minutes, seconds, and milliseconds respectively from a Date object.

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General (20 mins)

MCQ Practice 7 (20 mins)

6. `getHours()`, `getMinutes()`, `getSeconds()` and `getMilliseconds()`: These methods retrieve the hours, minutes, seconds, and milliseconds respectively from a Date object.

Example:

JAVASCRIPT

```
1 var date = new Date();
2 console.log(date.getHours());
3 console.log(date.getMinutes());
4 console.log(date.getSeconds());
5 console.log(date.getMilliseconds());
```

7. `setFullYear()`, `setMonth()`, `setDate()`: These methods are used to set individual date and time components.

Example:

JAVASCRIPT

```
1 var date = new Date();
2 date.setFullYear(2025);
3 date.setMonth(11);
4 date.setDate(25);
5 console.log(date);
```

← Question 5 of 5

What will happen if we set the month to 12 using `setMonth()` method?

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MCQ Practice 7 0 20 mins

Q. Write a JavaScript function that returns the current date if the time is before 8 o'clock; otherwise, it should return the time for the next day.

Companies Asked: Growthify Media

You can create a JavaScript function that checks the current time and returns either the current date if it's before 8 AM or the date of the next day if it's after 8 AM. Here's a sample function to accomplish this:

JAVASCRIPT

```
1+ function getDateOrNextDay() {  
2  const currentDate = new Date();  
3  const currentHour = currentDate.getHours();  
4  
5+ if (currentHour < 8) {  
6    // If the current time is before 8 AM, return the current date  
7    return currentDate;  
8+ } else {  
9    // If the current time is 8 AM or later, add one day to the current date  
10   const nextDay = new Date(currentDate);  
11   nextDay.setDate(nextDay.getDate() + 1);  
12   return nextDay;  
13 }  
14 }  
15  
16 console.log(getDateOrNextDay());  
17 // Output: Mon Dec 05 2022 08:00:00 GMT+0530 (India Standard Time)
```

This function first gets the current date and hour using the `Date` object. It checks if the current hour is less than 8, and if so, it returns the current date. Otherwise, it creates a new date object representing the next day and returns it.

← Question 2 of 2

To get the current hour using the `Date` object, which method should be used?

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JAVASCRIPT

```
9 // If the current time is 8 AM or later, add one day to the current date
10 const nextDay = new Date(currentDate);
11 nextDay.setDate(currentDate.getDate() + 1);
12 return nextDay;
13 }
14 }
15
16 // Example usage:
17 const result = getDateOrNextDay();
18 console.log(result);
```

This function first gets the current date and hour using the `Date` object. It checks if the current hour is less than 8, and if so, it creates a new date object representing the next day and returns it.

Question 2 of 2

To get the current hour using the `Date` object, which method should be used?

`getMinutes()`



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Q. What is the difference between a function declaration and a function expression?

Companies Asked: Root and Leaves

Feature/Behavior	Function Declaration	Function Expression
Syntax	function name() {}	const name = function (){} or const name = () => {}
Hoisting	Fully hoisted	Only variable is hoisted, not the function body
Can be called before definition	Yes	No
Can be anonymous	No	Yes

← Question 8 of 8

In which scenario can a function be called before its definition?

- When using a function declaration ✓
- When using a function expression
- Both function declaration and function expression allow it
- Neither function declaration nor function expression allow it

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Q. Are the function expressions hoisted?

No, function expressions in JavaScript are not hoisted, which means they cannot be used before they are defined.

JAVASCRIPT

```
1 console.log(myFunction()); // Outputs: TypeError: myFunction is not a function
2
3 Let myFunction = function() {
4   return "Hello World";
5 }
```

In the example, only the variable declaration (`let myFunction`) is hoisted to the top, not the assignment of the function to the variable. So at the time when `console.log(myFunction())` is executed, `myFunction` is undefined, hence the TypeError.

← Question 3 of 3

What is the output of the given code?

JAVASCRIPT

```
1 console.log(myFunci
2
3 Let myFunction = func
4   return "Hello World
5 }
```

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Q. What is the difference between function expression and arrow function?

Companies Asked: Root and Leaves

Aspect	Function Expression	Arrow Function
Syntax	A function that is assigned to a variable. The function can be named, or anonymous. Example: <pre>let greet = function(name) { return "Hello, " + name; }</pre>	Introduced in ES6 with a shorter syntax and lexically binds the <code>this</code> value. Example: <pre>let greet = (name) => { return "Hello, " + name; }</pre>
<code>this</code> Keyword	The <code>this</code> keyword represents the object that called the function. Example: <pre>console.log(this.id);</pre> logs "undefined" in a global context.	Arrow functions do not have their own <code>this</code> . <code>this</code> inside an arrow function always represents the <code>this</code> value of the enclosing lexical context. Example: <pre>console.log(this.id);</pre> logs a value in the context of an object.
Constructor Function	Function expressions can be used as constructor functions. Example: <pre>let john = new Person('John');</pre> works fine.	Arrow functions cannot be used as constructors and will throw an error when used with <code>new</code> . Example: <pre>let john = new Person('John');</pre> throws <code>TypeError: Person is not a constructor.</code>

← Question 3 of 3

What will happen if we use an arrow function as a constructor?

JAVASCRIPT

```
1 - Let Person = (name) => {  
2     this.name = name;  
3 }  
4  
5
```

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Q. What is 'this' keyword in JavaScript?

In JavaScript, the `this` keyword refers to the object it belongs to. It has different values depending on where it is used.

1. In a method: `this` refers to the owner object.

```
1. let person = {  
2.   firstName: "John",  
3.   lastName : "Doe",  
4.   fullName : function() {  
5.     return this.firstName + " " + this.lastName;  
6.   }  
7.};
```

JAVASCRIPT

Here, `this` inside the `fullName` method refers to the `person` object.

2. In a class constructor: `this` refers to the instance of the class.

```
1. class ExampleClass {  
2.   constructor() {  
3.     this.property = "value";  
4.   }  
5.}
```

JAVASCRIPT

3. Alone: `this` refers to the global object. In a browser, it refers to the `window` object.

JAVASCRIPT

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Asynchronous JS and Error Handling (20 mins)

MCQ Practice 6 (20 mins)

General (20 mins)

MCQ Practice 7 (20 mins)

3. Alone: `this` refers to the global object. In a browser, it refers to the `window` object.

JAVASCRIPT

```
1 console.log(this); // Logs the global window object in a browser environment
```

4. In a arrow function: Arrow function inherits `this` from the context in which it is defined. Arrow functions don't have their own `this`.

JAVASCRIPT

```
1 let exampleObject = {
2   regularFunction: function() {
3     console.log(this); // Logs the exampleObject
4   }
5   let arrowFunction = () => {
6     console.log(this); // Also logs the exampleObject
7   };
8   arrowFunction();
9 }
10 }
```

← Question 6 of 6

What will be the output logged in the console for the given code?

JAVASCRIPT

```
1 console.log(this);
```

Completed 

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MCQ Practice 3 0 mins

Arrays and Objects ✓ 25 mins

MCQ Practice 4 0 mins

Functions And Storage Mechanism 0 mins

MCQ Practice 5 0 mins

Asynchronous JS and Error Handling 0 mins

MCQ Practice 6 0 mins

General 0 mins

MCQ Practice 7 0 mins

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JAVASCRIPT

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```

4. In a arrow function: Arrow function inherits `this` from the context in which it is defined. Arrow functions don't have their own `this`.

JAVASCRIPT

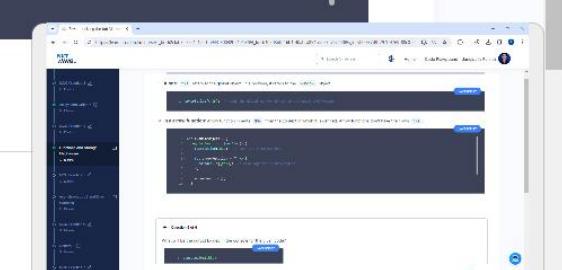
```
4
5  let arrowFunction = () => {
6    console.log(this); // Also logs the exampleObject
7  };
8
9  arrowFunction();
10 }
11 };
12
13 exampleObject.regularFunction();
```

Question 6 of 6

What will be the output logged in the console for the given code?

JAVASCRIPT

```
1 console.log(this);
```



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JavaScript > Asynchronous JS and Error Handling

Interview Questions

Recently Asked Questions and Answers

1. What is JSON and its common operations?

JSON stands for **JavaScript Object Notation**.

It is a data representation format used for:

- Storing data (Client/Server)
- Exchanging data between Client and Server

It is just a text file with an extension of `.json`

Common JSON operations:

Parsing: It parses a JSON string and returns a corresponding value (object, etc.).

Example:

```
1< let profile = {  
2   name: "Rahul",  
3   age: 29,  
4   designation: "Web Developer"  
5 };  
6< console.log(JSON.parse(profile)) // [{"name": "Rahul", "age": 29, "designation": "Web Developer"}]
```

JAVASCRIPT

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- Storing Data (Client/Server)
 - Exchanging data between Client and Server

It is just a text file with an extension of `.json`

Common JSON operations:

Parsing: It parses a JSON string and returns a corresponding value (object, etc.).

Example:

```
1- let profile = {  
2   name: "Rahul",  
3   age: 29,  
4   designation: "Web Developer"  
5 };  
6 console.log(JSON.parse(profile)) // {"name":"Rahul","age":29,"designation":"Web Developer"}
```

JAVASCRIPT

Stringification: It converts the given value into JSON string.

Example:

```
1- let profile = {  
2   name: "Rahul",  
3   age: 29,  
4   designation: "Web Developer"  
5 };  
6 console.log(JSON.stringify(profile)) // '{"name":"Rahul","age":29,"designation":"Web Developer"}'
```

JAVASCRIPT

Variables And Data Types 15 mins

MCQ Practice 1 10 mins

Operators And Conditional 10 mins

Flow 10 mins

MCQ Practice 2 10 mins

DOM And Events 15 mins

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- MCQ Practice 2 10 mins
- DOM And Events 15 mins

2. What is the syntax of a JSON object?

In JSON, all keys in an object must be enclosed with double-quotes. While in JS, this is not necessary.

So, *keys* must be strings, written with double quotes in JSON.

JS:

```
1. let profile = {  
2.   name: "Rahul",  
3.   age: 29,  
4.   designation: "Web Developer"  
5. };
```

JAVASCRIPT

• JSON:

```
1. {  
2.   "name": "Rahul",  
3.   "age": 29,  
4.   "designation": "Web Developer"  
5. }
```

JSON

3. How do you access keys from JSON string?

First, parse the stringified JSON using the `JSON.parse` method and then access keys from the returned object.

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DOM And Events 15 mins

JavaScript > Asynchronous JS and Error Handling

3. How do you access keys from JSON string?

First, parse the stringified JSON using the `JSON.parse` method and then access keys from the returned object.

Example:

JAVASCRIPT

```
1 const myJSON = '{"name": "John", "age": 30, "car": null}';  
2 const myObj = JSON.parse(myJSON);  
3 const name = myObj.name;  
4  
5 console.log(name); // Output: John
```

4. What are `async` and `await` functions in javascript, when will you use this functions

Companies Asked: Fretron

The `async-await` is a modern way to consume promises and these are used to work with asynchronous operations, allowing for a more concise and clean code structure compared to traditional callback patterns and promises.

Async

The `async` keyword is used to declare an asynchronous function that implicitly returns a promise.

Here's how to declare an async function:

JAVASCRIPT

```
function myFunction() {  
  return new Promise((resolve, reject) => {  
    // ...  
    resolve("Success");  
  });  
}
```

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Async

The `async` keyword is used to declare an asynchronous function that implicitly returns a promise.

Here's how to declare an `async` function:

JAVASCRIPT

```
▲ 1+ async function fetchUserData() {  
  2  // ...  
  3}
```

Await

The `await` keyword can only be used inside an `async` function and is used to pause the execution of the function until the awaited promise is resolved or rejected. It makes the asynchronous code appear and behave as though it were synchronous.

Here is how you can use the `await` keyword:

JAVASCRIPT

```
▲ 1+ async function fetchUserData() {  
  2+   try {  
  3+     const response = await fetch('https://api.example.com/user');  
  4+     const data = await response.json();  
  5+     console.log(data);  
  6+   } catch (error) {  
  7+     console.error('Error fetching data:', error);  
  8+   }
```



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  5+     console.log(data);  
  6+   } catch (error) {  
  7+     console.error('Error fetching data:', error);  
  8+   }  
  9+ }
```

When to use `async-await` functions:

- When Dealing with Network Requests
- When some operations depend on the results of previous asynchronous operations

● **Question 4 of 4**

What will happen if we remove the `async` keyword from the function containing the `await` keyword in the below code?

JAVASCRIPT

```
▲ 1+ async function fetchData() {  
  2+   const data = await fetch('https://api.example.com/user');  
  3+   console.log(data);
```

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When to use `async-await` functions:

- When Dealing with Network Requests
- When some operations depend on the results of previous asynchronous operations

← Question 4 of 4

What will happen if we remove the `async` keyword from the function containing the `await` keyword in the below code?

JAVASCRIPT

```
1<code>async function fetchData() {</code>
2  const data = await fetch('https://api.example.com/user');
3  console.log(data);
4}</code>
```

The code will run without any errors

SyntaxError will be thrown ✓

TypeError will be thrown

The fetch function will not be called

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JavaScript > Asynchronous JS and Error Handling

Q. Where can we use `await` function?

The `await` keyword in JavaScript is used within an `async` function to pause the execution of that function until a promise is resolved.

← Question 3 of 3

What is the output of the given code?

JAVASCRIPT

```
2+ let promise = new Promise((resolve) => {
3    setTimeout(() => resolve("Result"));
4);
5
6 let result = await promise;
7
8 console.log(result);
9}
10 example();
```

done! ✓

undefined

Error

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JavaScript > Asynchronous JS and Error Handling

5. Why do we use Async and Await?

The Async/Await is a modern way to consume promises. The `await` ensures processing completes before the next statement executes.

- We can avoid chaining promise altogether using `async/await`.
- It allows asynchronous execution while maintaining a regular, synchronous feel and readability.

6. Which one would you prefer between Promises or `async/await`?

The **async/await** simply gives you a synchronous feel to asynchronous code. It's a very elegant form of syntactical sugar and is more readable.

For simple queries and data manipulation, **Promises** can be preferred otherwise we will prefer `async/await`.

7. What is an Asynchronous Execution?

In Asynchronous execution, the second statement won't wait until the first statement execution.

Example: Fetch

JAVASCRIPT

```
1 const url = "https://apis.ccbp.in/jokes/random";
2
3 fetch(url)
4 .then(response) => {
5   return response.json();
6 }
```

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Example: Fetch

JAVASCRIPT

```
1 const url = "https://apis.ccbp.in/jokes/random";
2
3 fetch(url)
4   .then((response) => {
5     return response.json();
6   })
7   .then((jsonData) => {
8     //statement-1
9     console.log(jsonData);
10});
```

Output:

```
1 fetching done
2 Object{ value:"The computer tired when it got home because it had a hard drive" }
```

8. What is a fetch method in JS?

The `fetch` method is used to fetch resources across the Internet. It returns a promise.

Syntax:

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Example: Fetch

```
4 .then((response) => {  
5   return response.json();  
6 }  
7 .then((jsonData) => {  
8   //statement-1  
9   console.log(jsonData);  
10});  
11  
12 //statement-2  
13 console.log("fetching done");
```

JAVASCRIPT

Output:

```
1 fetching done  
2 Object{ value:"The computer tired when it got home because it had a hard drive" }
```

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Syntax:

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8. What is a fetch method in JS?

The `fetch` method is used to fetch resources across the Internet. It returns a promise.

Syntax:

```
+ 1 fetch[URL, OPTIONS]
```

JAVASCRIPT

- URL: URL of the resource
- OPTIONS: Request Configuration

Request Configuration:

We can configure a request by passing an options object with required properties like,

- Request Method
- Headers
- Body
- Credentials
- Cache, etc.

Example:

```
1+ let options = {  
2  method: "GET",  
3  headers: {  
4    "Content-Type": "application/json"  
5  },  
6  body: JSON.stringify(data)  
7};
```

JAVASCRIPT

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fetch(URL, OPTIONS)

- URL: URL of the resource
- OPTIONS: Request Configuration

Request Configuration:

We can configure a request by passing an options object with required properties like,

- Request Method
- Headers
- Body
- Credentials
- Cache, etc.

Example:

```
1 let options = {
2   method: "GET",
3   headers: {
4     "Content-Type": "application/json"
5   },
6   body: JSON.stringify(data)
7 };
8
9 fetch("https://gorest.co.in/public-api/users", options);
```

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10. What are HTTP request methods?

HTTP Methods indicate the desired action to be performed for a given resource.

Name	Description
GET (Read)	Request for a resource(s) from the server
POST (Create)	Submit data to the server
PUT (Update)	The data within the request must be stored at the URL supplied, replacing any existing data
DELETE (Delete)	Delete a resource(s)

11. What is the difference between the HTTP GET method and the HTTP POST method?

The HTTP **GET** method is used to retrieve (get) data from a specified resource while the HTTP **POST** method is used to send data to the server.

Q. What is meant by try...catch statement?

Companies Asked: Root and Leaves

- The `try` block includes the code that might generate an error.
- The `catch` includes the code that is executed when an error occurs inside the `try` block.

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Q. What is meant by try...catch statement?

Companies Asked: Root and Leaves

- The `try` block includes the code that might generate an error.
- The `catch` includes the code that is executed when an error occurs inside the `try` block.

Syntax:

```
1. try {  
2.   // Block of code to try  
3. }  
4. catch(err) {  
5.   // Block of code to handle errors  
6. }
```

JAVASCRIPT

← Question 4 of 4

What is the purpose of the `try` block in a `try...catch` statement?

- It includes code that is executed when an error occurs.
- It includes code that is executed regardless of whether an error occurs or not.
- It includes code that might generate an error. ?

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13. Where do we use try...catch statements?

We use the **try...catch** statements when our code has a chance of throwing an exception which need to be handled.

14. What is setTimeout() and write an example code for SetTimeout()?

Companies Asked: Algonox

`setTimeout()` is a method in the JavaScript that allows us to run a function once after a specified delay in milliseconds.

Here's the basic syntax for `setTimeout()` :

JAVASCRIPT

```
1 setTimeout(functionToExecute, delayInMilliseconds);
```

- `functionToExecute` is the function we want to execute after the delay.
- `delayInMilliseconds` is the number of milliseconds to wait before executing the function.

For example:

JAVASCRIPT

```
1 - setTimeout(() => {
2   console.log('This message will be displayed after 2 seconds.');
3 }, 2000);
```

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JavaScript > Asynchronous JS and Error Handling

15. Explain about SetInterval(), SetTimeout() ?

setTimeout()	setInterval()
`setTimeout()` allows us to run a function once after the interval of time.	`setInterval()` allows us to run a function repeatedly, starting after the interval of time, then repeating continuously at that interval.

16. How to stop setTimeout()?

- By using `clearTimeout()` method we can stop `setTimeout()` .
- A call to `setTimeout` returns a timer identifier `timerId` that we can use to cancel the execution.

Example:

```
1< let timerId = setTimeout(function () {  
2   alert("Hello");  
3 }, 3000);  
4 clearTimeout(timerId);
```

17. Explain about setInterval and clearInterval methods in JavaScript?

setInterval():

The `setInterval` method allows us to run a function at the specified interval of time repeatedly.

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 - DOM And Events 15 mins

17. Explain about setInterval and clearInterval methods in JavaScript?

setInterval():

The `setInterval` method allows us to run a function at the specified interval of time repeatedly.

Syntax:

```
setInterval(function, delay);
```

JAVASCRIPT

- function: A callback function that is called repeatedly at the specified interval of time (delay).
- delay: time in milliseconds. (1 second = 1000 milliseconds)

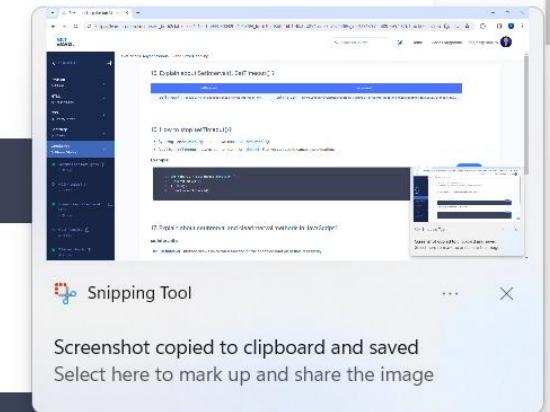
clearInterval():

- The `clearInterval()` method cancels a schedule previously set up by calling `setInterval()`.
- To execute `clearInterval()` method, we need to pass the uniqueId returned by `setInterval()` as an argument.

Syntax:

```
clearInterval(uniqueId);
```

18. Can you explain the below code, and How it works?



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JavaScript > Asynchronous JS and Error Handling

18. Can you explain the below code, and How it works?

JAVASCRIPT

```
1 console.log(1);
2 console.log(2);
3
4 setTimeout(() => {
5   console.log(3);
6 }, 6);
7
8 console.log(4);
```

Output:

```
1 1
2 2
3 4
4 3
```

Here, `setTimeout(()=>{console.log(3)},6)`

The function in `setTimeout` executes after completing the time specified in the second parameter. So **4** is logged before **3**.

19. What is the difference between Promises and Callback?

Promises **Callbacks**

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JavaScript > Asynchronous JS and Error Handling

19. What is the difference between Promises and Callback?

Promises	Callbacks
With promises, the executing function returns a special object to us and then we tell the promise what to do when the asynchronous task completes.	With callbacks, we tell the executing function what to do when the asynchronous task completes.

Q. What is a callback function?

Companies Asked: Root and Leaves

A **callback function** is a function passed into another function as an argument.

Example:

JAVASCRIPT

```
1< function greeting(name) {  
2   alert("Hello " + name);  
3 }  
4  
5< function processUserInput(callback) {  
6   let name = alert("Please enter your name.");  
7   callback(name);  
8 }  
9  
10 processUserInput(greeting);
```

← Question 4 of 4

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Example:

JAVASCRIPT

```
1< function greeting(name) {  
2   alert("Hello " + name);  
3 }  
4  
5< function processUserInput(callback) {  
6   let name = alert("Please enter your name.");  
7   callback(name);  
8 }  
9  
10 processUserInput(greeting);
```

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JavaScript > Asynchronous JS and Error Handling

21. What are the uses of callback?

Callbacks are generally used when the function needs to perform events before the callback is executed.

It will be useful when we need to use the result of the first function into another function.

For Example, `setTimeout`, `setInterval`, etc.

Q. What are promises in JavaScript?

Companies Asked: Root and Leaves

JS Promises:

- Promise is a way to handle Asynchronous operations.
- A promise is an object that represents a result of an operation that will be returned at some point in the future.
- A promise will be in any one of the three states:
 - Pending:** Neither fulfilled nor rejected
 - Fulfilled:** Operation completed successfully
 - Rejected:** Operation failed

Example:

```
1 const url = "https://apis.ccbp.in/jokes/random";
2 let responseObject = fetch(url);
```

JAVASCRIPT

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Q. What are promises in JavaScript?

Companies Asked: Root and Leaves

JS Promises:

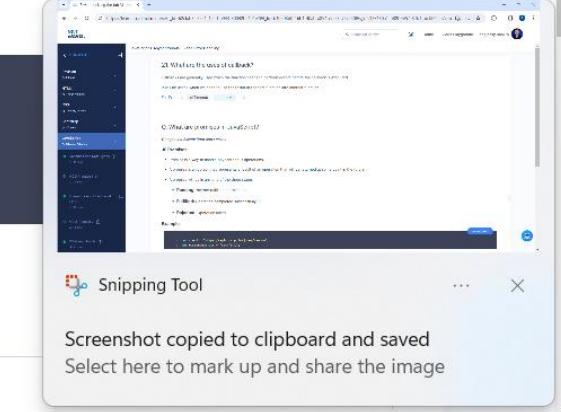
- Promise is a way to handle Asynchronous operations.
- A promise is an object that represents a result of an operation that will be returned at some point in the future.
- A promise will be in any one of the three states:
 - Pending:** Neither fulfilled nor rejected
 - Fulfilled:** Operation completed successfully
 - Rejected:** Operation failed

Example:

```
1 const url = "https://apis.ccbp.in/jokes/random";
2 let responseObject = fetch(url);
3
4 console.log(responseObject); // Output: Promise{ [[PromiseStatus]]:pending, [[PromiseValue]]:undefined }
5 console.log("fetching done"); // Output: fetching done
```

- To know more, refer to [JS Promises | Cheat Sheet](#)

Question 6 of 6



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JavaScript > Asynchronous JS and Error Handling

Question 6 of 6

Which of the following states indicates that a Promise's operation has not yet completed?

- Fulfilled
- Rejected
- Pending
- Completed

23. When to use JS Promises?

- **Promises** are used to handle asynchronous operations in JavaScript. They can handle multiple asynchronous operations easily and provide better error handling than callbacks and events.
- To know more, refer to [JS Promises | Cheat Sheet in JavaScript Essentials course](#)

24. What are the handling methods of a Promise?

The methods `promise.then()`, `promise.catch()`, and `promise.finally()` are used to handle the promise that becomes settled.

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JavaScript > Asynchronous JS and Error Handling

24. What are the handling methods of a Promise?

The methods `promise.then()`, `promise.catch()`, and `promise.finally()` are used to handle the promise that becomes settled.

promise.then()

The `then` method is called after the Promise is resolved.

Example:

```
1 const url = "https://apis.ccbp.in/jokes/random";
2 let responsePromise = fetch(url);
3
4 responsePromise.then((response) => {
5   console.log(response); // Output: Response{ ... }
6});
```

JAVASCRIPT

promise.catch()

The `catch` method is called after the Promise is rejected.

Fetching a resource can be failed for various reasons like:

- The URL is spelt incorrectly
- Server is taking too long to respond
- Network failure error, etc.

Example:

```
1 const url = "https://apis.ccbp.in/jokes/random";
2 let responsePromise = fetch(url);
```

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```
1 const url = "https://apis.ccbp.in/jokes/random";
2 let responsePromise = fetch(url);
3
4 responsePromise.then((response) => {
5   console.log(response); // Output: Response{ ... }
6});
```

promise.catch()

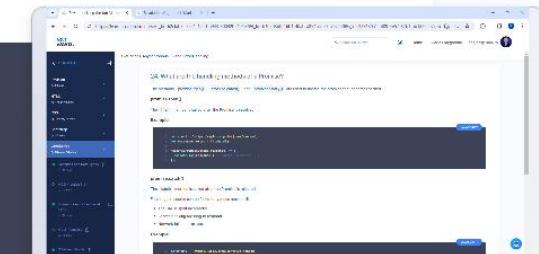
The `catch` method is called after the Promise is rejected.

Fetching a resource can be failed for various reasons like:

- The URL is spelt incorrectly
- Server is taking too long to respond
- Network failure error, etc.

Example:

```
1 const url = "https://apis.ccbp.in/jokes/random";
2 let responsePromise = fetch(url);
3
4 responsePromise.then((response) => {
5   console.log(response);
6 });
7 responsePromise.catch((error) => {
8   console.log(error); // TypeError( "Failed to fetch" )
9});
```



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JavaScript > Asynchronous JS and Error Handling

Q. What could be the output for the below code?

JAVASCRIPT

```
1 async function fetchUserData() {  
  2   const response = fetch('https://api.example.com/user');  
  3   return response  
  4 }  
  5  
  6  
  7 console.log("hello")  
  8 var x = fetchUserData()  
  9 console.log(x)  
 10 console.log("world")
```

Companies Asked: Fretron

The `async-await` is a modern way to consume promises and these are used to work with asynchronous operations, allowing for a more concise and clean code structure compared to traditional callback patterns and promises.

The `async` keyword is used to declare an asynchronous function that implicitly returns a promise. The `await` keyword can only be used inside an `async` function and is used to pause the execution of the function until the awaited promise is resolved or rejected.

The output for the code will be:

```
1 hello  
2 { [[PromiseStatus]]:pending, [[PromiseValue]]:undefined }  
3 world
```

← Question 4 of 4

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JavaScript > Asynchronous JS and Error Handling

Q. How can you fetch data in JavaScript?

Companies Asked: Root and Leaves

Fetching data in JavaScript can be done in a variety of ways, but the most common modern method is using the `fetch` API. Here's a quick overview:

1. Using the `fetch` API

The `fetch` API provides an easy and logical way to fetch resources asynchronously across the network. Here's a basic example:

```
JAVASCRIPT
1 fetch('https://api.example.com/data')
2 .then(response => response.json())
3 .then(data => {
4   console.log(data);
5 })
6 .catch(error => {
7   console.error('Error fetching data:', error);
8 });
```

Note:

- `fetch` returns a Promise that resolves to the `Response` object representing the response to the request.
- The `response.json()` method also returns a Promise that resolves with the result of parsing the body text as JSON.

2. Using Async/Await with `fetch`

With the introduction of async/await in modern JavaScript, you can write asynchronous code that looks synchronous:

```
JAVASCRIPT
1+ async function fetchData() {
2+   try {
3     const response = await fetch('https://api.example.com/data');
4     const data = await response.json();
5     console.log(data);
```

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JavaScript > Asynchronous JS and Error Handling

2. Using Async/Await with `fetch`

With the introduction of `async/await` in modern JavaScript, you can write asynchronous code that looks synchronous:

```
JAVASCRIPT
1+ async function fetchData() {
2+   try {
3+     const response = await fetch('https://api.example.com/data');
4+     const data = await response.json();
5+     console.log(data);
6+   } catch (error) {
7+     console.error('Error fetching data:', error);
8+   }
9+ }
```

Question 5 of 5

Which JavaScript feature allows you to write asynchronous code that looks synchronous when using the `fetch` API?

- Callback functions
- Promises
- Generators
- Async/Await

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JavaScript > Asynchronous JS and Error Handling

2. Using Async/Await with `fetch`

With the introduction of `async/await` in modern JavaScript, you can write asynchronous code that looks synchronous:

```
try {
  const response = await fetch('https://api.example.com/data');
  const data = await response.json();
  console.log(data);
} catch (error) {
  console.error('Error fetching data:', error);
}
fetchData();
```

JAVASCRIPT

Question 5 of 5

Which JavaScript feature allows you to write asynchronous code that looks synchronous when using the `fetch` API?

- Callback functions
- Promises
- Generators
- Async/Await

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MCQ Practice 5 10 mins

Asynchronous JS and Error Handling 20 mins

MCQ Practice 6 20 mins

General 20 mins

MCQ Practice 7 20 mins

JS - Miscellaneous 10 mins

React 2 hours >

Interview Questions

Recently Asked Questions and Answers

1. What is JavaScript?

JavaScript is a programming language used both on the client-side and server-side that allows you to make web pages interactive. It improves the user experience of the web page by converting it from a static page into an interactive one (dynamic page).

2. What is the use of a JavaScript?

Some of the uses of JavaScript are:

- Adds interactive behavior to web pages
- Creates web and mobile apps
- Builds web servers and develops server applications
- Game development, etc.

3. What is the use of a document in JavaScript?

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MCQ Practice 5 10 mins

Asynchronous JS and Error Handling 20 mins

MCQ Practice 6 20 mins

General 20 mins

MCQ Practice 7 20 mins

JS - Miscellaneous 10 mins

React 2 hours

3. What is the use of a document in JavaScript?

JavaScript Document object is an object that provides access to all HTML elements of a document. It has various properties that refer to other objects which allow us to access and modify the document content.

4. What are the differences between JavaScript and Java?

JavaScript	Java
JavaScript is a scripting language	Java is a programming language
JavaScript code is run on a browser only	Java creates applications that run in a virtual machine or browser
JavaScript file has the file extension .js	Java file has the file extension .java

5. How to print in JS?

We can use the `console.log()` to print to JavaScript console. The JavaScript `console.log` method is mainly used for code debugging as it makes the JavaScript print the output to the console.

Example:

```
1 console.log("Hello World!");
```

JAVASCRIPT

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JS - Miscellaneous 10 mins

React 2 hours

6. What is execution context?

Execution Context

- The environment in which Code runs is called Execution Context.
- Execution context contains all the variables, objects, and functions.
- Execution Context is destroyed and recreated whenever we reload an Application.

7. How to display the output in JavaScript (not in the console)?

JavaScript can **display** data in different ways:

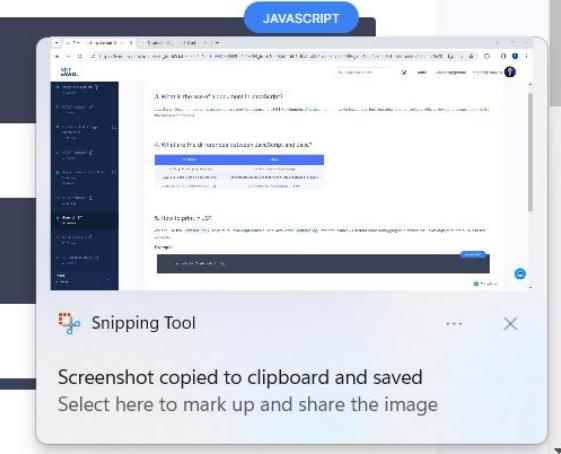
textContent

```
1 let displayEl = document.getElementById("display");
2 displayEl.textContent = 10 + 15;
```

innerHTML

```
1 let displayEl = document.getElementById("display");
2 displayEl.innerHTML = 10 + 15;
```

document.write()



A screenshot of a browser window showing a question about execution contexts. The browser has tabs for 'Revolutionizing the Job Market' and 'Revolutionizing the Job Market'. The main content area shows a question: 'What is the output of the code below?' followed by the code 'let displayEl = document.getElementById("display"); displayEl.textContent = 10 + 15;'. Below the code, there are two options: 'A) 10' and 'B) 10 + 15'. The browser's address bar shows the URL: https://learning.ccbp.in/course?c_id=62cfab3f-7551-452d-b943-30042b21e1e2&t_id=b405d3d0-16b1-40ab-a854-ccc53a75c440&s_id=49ad1c82-b6ef-4fd5-aed8-c1c5c4270e20. A Snipping Tool window is overlaid on the browser, showing the copied screenshot of the browser content.

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Arrays and Objects 25 mins

MCQ Practice 4 10 mins

Functions And Storage Mechanism 15 mins

MCQ Practice 5 10 mins

Asynchronous JS and Error Handling 20 mins

MCQ Practice 6 20 mins

General 20 mins

MCQ Practice 7 20 mins

JS - Miscellaneous 10 mins

React 2 hours

7. How to display the output in JavaScript (not in the console)?

JavaScript can **display** data in different ways:

textContent

```
1 let displayEl = document.getElementById("display");
2 displayEl.textContent = 10 + 15;
```

innerHTML

```
1 let displayEl = document.getElementById("display");
2 displayEl.innerHTML = 10 + 15;
```

document.write()

```
1 document.write(10 + 15);
```

alert

```
1 alert(10 + 15)
```



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MCQ Practice 7 20 mins

JS - Miscellaneous 10 mins

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8. List some of the advantages of JavaScript.

- Server interaction is less.
- Feedback to the visitors is immediate.
- Interactivity is high.

9. What is the output of `10+20+"30"` in JavaScript?

3030

10. What language is JavaScript?

JavaScript is known as the Scripting Language for Web pages.
It is used add interactivity in Webpages.

11. Where do you write JavaScript?

We can write JavaScript in the HTML `script` element.
The HTML `script` element contains script statements, or it points to an external script file through the HTML `src` attribute.

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General 20 mins

MCQ Practice 7 20 mins

JS - Miscellaneous 10 mins

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12. In how many ways we can write javascript code in HTML?

Companies Asked: Algonox

There are three main ways to write JavaScript code within an HTML file:

1. Inline JavaScript: You can write JavaScript directly within an HTML tag using the `onclick` attribute or other similar event attributes. For example:

```
f 1 <button onclick="alert('Hello, world!')>Click me</button>
```

2. Internal JavaScript: You can include JavaScript code within the `<script>` tags directly within the HTML file. This is typically placed in the `<head>` or `<body>` section of the HTML file. For example:

```
f 1 <script>
2 function greet() {
3   alert('Hello, world!');
4 }
5 </script>
```

3. External JavaScript: You can write JavaScript code in a separate file with the `.js` extension and then include that file in your HTML using the `<script>` tag with the `src` attribute. For example:

```
f 1 <script src="script.js"></script>
```

These are the common ways to write JavaScript code within an HTML file. Each approach has its own advantages and use cases, depending on the complexity and organization of your code.

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13. What is the solution to the absence of an HTML script element without an HTML src attribute?

The solution to the absence of an HTML `script` element without an HTML `src` attribute is to embed the JavaScript code in the HTML document using HTML `script` element.

Example

```
<script type="text/javascript">
  let buttonEl = document.getElementById("button");
  buttonEl.addEventListener("click", function (event) {
    console.log("button is clicked");
  });
</script>
```

14. Who created JavaScript?

The JavaScript was created by Brendan Eich at Netscape.

15. How to convert a string to a number?

We can convert a string to a number using the `parseInt` method.

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MCQ Practice 7 20 mins

JS - Miscellaneous 10 mins

React 2 hours

16. What is an alert method in JS?

The **alert** methods instructs the browser to display a dialog with an optional message, and to wait until the user dismisses the dialog.

Example:

```
# 1 alert("Hello")
```

JAVASCRIPT

17. How do you debug errors in JavaScript?

Companies Asked: Algonox, Reyan Digital

1. Browser Developer Tools

It has a comprehensive set of utilities that aid in debugging JavaScript by allowing developers to inspect elements, view console outputs, and analyse network requests, among other functionalities. It provides an array of tools for inspecting different aspects of a web page.

2. Breakpoints

Breakpoints are markers set at specific lines in the JavaScript code where the execution will pause, allowing developers to explore the current state of the application at that point. It facilitates the step-by-step execution of code allowing to monitor variable values at different stages of execution.

3. Console Logging

Console logging is the process of inserting `console.log()` statements in your code to output the values of variables, expressions, or messages to the browser's console, helping you trace the flow of code execution and pinpoint errors. It is simple to use and requires no setup.

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18. How can we submit a form in js?

We can submit the form,

- By clicking the HTML `button` element with type `submit`.
- By clicking the HTML `input` element with type `submit`.

19. How to implement the form validation in JavaScript?

You can refer to this [session code](#) for implementing form validation in JavaScript.

20. How many scopes of a variable does JavaScript have?

JavaScript Variable has two scopes, local and global.

Local Scope:

If a variable is declared with `const` or `let` within a curly brace (`{}`), then it is said to be defined in the Block Scope.

Example:

```
i  function isEven(){  
  2    let number = 2;  
  3    return number%2 === 0  
}
```

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JavaScript Variable has two scopes, local and global.

Local Scope:

If a variable is declared with `const` or `let` within a curly brace (`{}`), then it is said to be defined in the Block Scope.

Example:

```
function isEven(){
  let number = 2;
  return number%2 === 0
}
isEven()
```

Global Scope:

If a variable is declared outside all functions and curly braces (`{}`), then it is said to be defined in the Global Scope.

Example:

```
let number = 2;
function isEven(){
  return number%2 === 0
}
isEven()
```

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JavaScript > General

Q. What is hoisting in JavaScript?

Companies Asked: Root and Leaves

Hoisting is a JavaScript technique that moves variables and function declarations to the top of their scope before code execution begins.

1. Function hoisting in JavaScript refers to the behavior where function declarations are moved to the top of their containing scope during the execution phase. Even though the function declaration is after the function call, the function is called. This is possible due to function hoisting.

Example:

```
1 console.log(functionBelow("Hello"));
2
3 function functionBelow(greet) {
4   return `${greet} world`;
5 }
6
7 console.log(functionBelow("Hi"));
```

JAVASCRIPT

Output:

```
1 Hello world
2 Hi world
```

2. Variable hoisting in JavaScript means that variable declarations are moved to the top of their containing function or script, but their initializations are not.

Example:

```
1 console.log(myVar);
2 var myVar = 10;
```

JAVASCRIPT

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JavaScript > General

2. **Variable hoisting** in JavaScript means that variable declarations are moved to the top of their containing function or script, but their initializations are not.

Example:

```
1 console.log(myVar);
2 var myVar = 10;
3 console.log(myVar);
```

Output:

```
1 undefined
2 10
```

In this code, `myVar` is declared before the function begins executing due to hoisting. However, its initialization with the value `10` remains where it is written. So, the first log statement outputs `undefined`, and the second one outputs `10`.

← Question 4 of 4

What happens when you call a function in JavaScript that is defined below the function call in the code?

The function call will result in an error.

JavaScript automatically moves the function declaration to the top, so the call works. ✓

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JavaScript > General

Q. Is hoisting work on arrow functions?

No, arrow functions cannot be hoisted.

JAVASCRIPT

```
1 myFunction();
2
3 ▲ 3 - let myFunction = () => {
4     let x = 5;
5     console.log(x); // ReferenceError: "Cannot access 'myFunction' before initialization"
6 };
```

◀ Question 4 of 4

Which of the following is true about arrow functions in JavaScript?

- Arrow functions are hoisted as function definitions.
- Arrow functions can be used before their declaration.
- Arrow functions are hoisted like var declarations.
- Arrow functions are not hoisted. ✓

Q. Does hoisting apply to let, const, var in js?

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JavaScript > General

Q. Does hoisting apply to let, const, var in js?

Intent of the interviewer: To understand how hoisting works differently for var, let, and const through practical examples.

Answer:

Hoisting applies to `var`, but not to `let` and `const`.

A `var` variable can be used before it has been declared. For example,

```
1 // program to display value
2 a = 5;
3 console.log(a);
4 var a; // 5
```

In the above example, the variable `a` is used before being declared. Due to JavaScript's hoisting mechanism, `var` declarations are moved to the top of their scope, thus the program functions correctly and displays the output as `5`.

However, if `let` and `const` variables are used before they are declared, a `ReferenceError` is thrown directly.

```
1 console.log(myLet); // ReferenceError: Cannot access 'myLet' before initialization.
▲ 2 let myLet = 5;
3
4 console.log(myConst); // ReferenceError: Cannot access 'myConst' before initialization
▲ 5 const myConst = 10;
```

← Question 6 of 6

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JavaScript > General

Q. Can you give an example of hoisting?

Hoisting is a JavaScript technique that moves variables and function declarations to the top of their scope before code execution begins.

For example if we use var,

```
1 console.log(myVar); // Outputs: undefined (due to hoisting)
2 var myVar = "Hello";
3 console.log(myVar); // Outputs: Hello
```

JAVASCRIPT

When it comes to "let" or "const", accessing them before declaration throws a direct ReferenceError.

```
1 console.log(myLet); // Throws: ReferenceError: Cannot access 'myLet' before initialization
▲ 2 let myLet = "Hello";
3 console.log(myLet); // This line won't be reached due to the error above
```

JAVASCRIPT

"let" and "const" won't have the hoisting functionality.

← Question 3 of 3

What is the output of the given code?

```
1 console.log(myLet);
▲ 2 let myLet = "Hello";
3 console.log(myLet);
```

JAVASCRIPT

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JavaScript > General

22. What are the differences between class and object?

Class	object
Class is a template for creating objects in a program	Object is an instance of a class
Class is a logical entity	Object is a physical entity
Class does not allocate memory space	Object allocates memory space
You can declare class only once	You can create more than one object using a class
Classes can't be manipulated	Objects can be manipulated
Classes doesn't have any Values	Objects have its own values
You can create a class using the "class" keyword	You can create an object using the "new" keyword in JavaScript

23. Define class and object?

Class:

The Class is a special type of function used for creating multiple objects.

Syntax:

```
1 - class ClassName {  
2   constructor() {}  
3   method_1() {}  
4   method_2() {}  
5   method_3() {}  
6 }
```

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JavaScript > General

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Class:

The Class is a special type of function used for creating multiple objects.

Syntax:

```
1+ class ClassName {  
2  constructor() {}  
3  method_1() {}  
4  method_2() {}  
5  method_3() {}  
6 }
```

Object:

- An Object is a collection of properties.
- A property is an association between a name (or key) and a value.
- For example, a person has a name, age, city, etc. These are the properties of the person.

```
1+ let person = {  
2  firstName: "Rahul",  
3  lastName: "Attuluri",  
4  age: 28,  
5 };
```

JAVASCRIPT

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JavaScript > General

24. What is Class Inheritance in JavaScript?

Inheritance is a mechanism by which a class inherits methods and properties from another class.

Syntax:

```
1+ class SuperClass {  
2+   constructor(property1) {  
3+     this.property1 = property1;  
4+   }  
5+   method1() {}  
6+ }  
7+ class SubClass extends SuperClass {  
8+   constructor(property1, property2) {  
9+     super(property1);  
10+    this.property2 = property2;  
11+  }  
12+ }
```

Here, `SubClass` inherits methods and properties from a `SuperClass`.

- The `extends` keyword is used to inherit the methods and properties of the superclass.
- Calling `super()` makes sure that `SuperClass constructor()` gets called and initializes the instance.

Q. What is an array, and how it allocates the space in the memory?

Companies Asked: Fretron

An array is a data structure that can hold more than one value at a time. It is a list of values that are all identified by an index.

In JavaScript, arrays are dynamically allocated, which means space is allocated at runtime and it can grow as needed. When an array is created, it gets a contiguous memory space where each element is stored next to the other, allowing for fast access. The memory is managed automatically by the JavaScript engine, and the specifics of how it is handled can vary between engines.

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JavaScript > General

24. What is Class Inheritance in JavaScript?

Inheritance is a mechanism by which a class inherits methods and properties from another class.

Syntax:

```
5     method1() {}
6 }
7+ class SubClass extends SuperClass {
8+   constructor(property1, property2) {
9     super(property1);
10    this.property2 = property2;
11  }
12  method1() {}
13 }
14 let myObject = new SubClass(property1, property2);
```

Here, `SubClass` inherits methods and properties from a `SuperClass`.

- The `extends` keyword is used to inherit the methods and properties of the superclass.
- Calling `super()` makes sure that `SuperClass constructor()` gets called and initializes the instance.

Q. What is an array, and how it allocates the space in the memory?

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JavaScript > General

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In JavaScript, arrays are dynamically allocated, which means space is allocated at runtime and it can grow as needed. When an array is created, it gets a contiguous memory space where each element is stored next to the other, allowing for fast access. The memory is managed automatically by the JavaScript engine, and the specifics of how it is handled can vary between different engines. It is generally recommended to keep the size of arrays reasonable to ensure good performance.

Here is an example of how to define an array and allocate space for it in JavaScript:

JAVASCRIPT

```
1 let arrayExample = [1, 2, 3, 4, 5];
```

In this line of code:

1. An array named `arrayExample` is being declared using the `let` keyword.
2. It is being assigned an array that contains five values, from 1 to 5.
3. Each value is allocated a spot in the memory, being accessible through its index in the array (0 to 4).

← Question 5 of 5

Which code will give the required result of adding a new element at the end of the `arrayExample` ?

arrayExample.add(6);

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JavaScript > General

Q. Write a code to search an element in an array and return the index in js.

Companies Asked: Fretron

Certainly, there are different approaches to solving the problem of searching for an element in an array and returning its index in JavaScript. Here are three commonly used approaches:

1. Using a for Loop:

- This is the approach I provided earlier in response to your initial question. It involves iterating through the array using a `for` loop and comparing each element with the target element.

```
function searchElement(array, target) {  
    for (let i = 0; i < array.length; i++) {  
        if (array[i] === target) {  
            return i;  
        }  
    }  
    return -1; // Element not found in the array  
}
```

2. Using the indexOf Method:

- JavaScript arrays come with a built-in `indexOf` method, which can be used to find the index of the first occurrence of an element in an array.

```
function searchElement(array, target) {  
    const index = array.indexOf(target);  
    return index; // Returns -1 if not found  
}
```

3. Using the findIndex Method:

- Another built-in method, `findIndex`, can be used to find the index of the first element in an array that satisfies a provided testing function.

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JavaScript > General

3. Using the `findIndex` Method:

- Another built-in method, `findIndex`, can be used to find the index of the first element in an array that satisfies a provided testing function.

```
function searchElement(array, target) {  
  const index = array.findIndex((element) => element === target);  
  return index; // Returns -1 if not found  
}
```

JAVASCRIPT

Each of these approaches can be used to solve the problem, but they have slightly different syntax and characteristics. The choice of which approach to use may depend on your specific requirements and coding style preferences.

← Question 5 of 5

In the for loop method of finding an element's index, what happens if the element does not exist in the array?

```
function searchElement(array, target) {  
  for (let i = 0; i < array.length; i++) {  
    if (array[i] === target) {  
      return i;  
    }  
  }  
  return -1;  
}  
console.log(searchElement([1,2,3,4,5], 6));
```

JAVASCRIPT

Returns the last index of the array

Returns -1

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General Web ⑨ 5 mins

More Interview Questions ⑩ 8 hours, 10 mins

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JavaScript > General

Q. Explain scopes in JavaScript.

Companies Asked: Fretron

Scopes in JavaScript refer to the context in which variables are declared, defined, and accessible within your code. They are essential for understanding how variables work and how they interact with different parts of your program.

In JavaScript, there are primarily two types of scope:

1. Block Scope

Variables declared with `const` or `let` within curly braces `{}` are considered to be in Block Scope. These include variables used in constructs like `if..else`, `function() {}`, `switch`, `for..of`, and more.

Example:

```
1 Let age = 27;
2 if (age > 18) {
3     Let x = 0;
4     console.log(x); // 0
5 }
6 console.log(x); // ReferenceError["x is not defined"]
```

2. Global Scope

Variables declared outside of all functions and curly braces `{}` are said to exist in the Global Scope. They can be accessed from anywhere in the code.

When you attempt to access a variable declared with `let` or `const`, JavaScript first looks in the Block Scope and then in the Global Scope for its definition. This order of search ensures that the most locally scoped variable is used if it exists, falling back to a global variable if there is no local counterpart.

Example:

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JavaScript > General

2. Global Scope

Variables declared outside of all functions and curly braces {} are said to exist in the Global Scope. They can be accessed from anywhere in the code.

When you attempt to access a variable declared with let or const, JavaScript first looks in the Block Scope and then in the Global Scope for its definition. This order of search ensures that the most locally scoped variable is used if it exists, falling back to a global variable if there is no local counterpart.

Example:

```
1  const x = 30;
2  function myFunction() {
3    if (x > 18) {
4      console.log(x); // 30
5    }
6  }
7
8  myFunction();
```

◀ Question 5 of 5

Which scope does a variable declared outside of all functions and curly braces {} belong to?

- Block Scope
- Function Scope
- Local Scope
- Global Scope

JAVASCRIPT



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JavaScript > General

Q. What could be the output for the below code?

```
1 let a=2;
2 function xyz()
3 {
4 console.log(a);
5 }
6 xyz()
```

JAVASCRIPT

Companies Asked: Fretron

Scopes in JavaScript refer to the context in which variables are declared, defined, and accessible within your code.

If a variable is declared with const or let within a curly brace ({}), then it is said to be defined in the **Block Scope**. If a variable is declared outside all functions and curly braces ({}), then it is said to be defined in the **Global Scope**.

When the function `xyz` is called, it looks for the value of `a` and finds it in the global scope, which is **2**.

So, the output of the code is **2**.

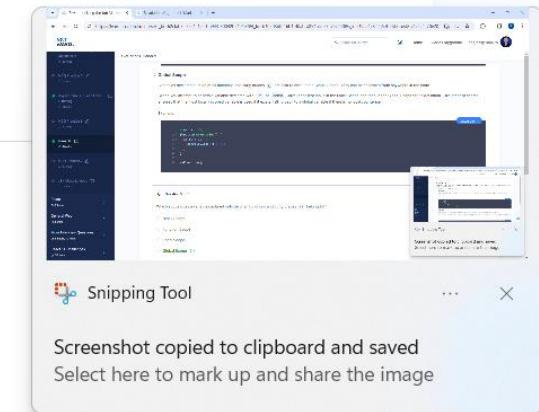
← Question 4 of 4

What type of scope is created when a variable is declared with `const` or `let` within a curly brace `{}` in JavaScript?

Global Scope

Local Scope

Block Scope



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JavaScript > General

Q. What is the scope of a 'let' variable when declared at the top of the file or inside a function?

Companies Asked: Fretron

In JavaScript, the scope of a `let` variable can differ based on its place of declaration.

- When declared at the top of a file, outside any function, it has a global scope, which means it can be accessed anywhere in that file.

Example:

```
// Example 1: 'let' variable declared at the top of a file
let globalVar = "I'm a global variable";

function exampleFunction() {
  console.log(globalVar); // Accessible inside the function
}

console.log(globalVar); // Accessible outside the function
```

- When declared inside a function, it has a function scope, which means it can only be accessed within that function.

Example:

```
// Example 2: 'let' variable declared inside a function
function exampleFunction() {
  let localVar = "I'm a local variable";

  console.log(localVar); // Accessible inside the function
}

exampleFunction();
console.log(localVar); // Not accessible outside the function
```

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JavaScript > General

← Question 5 of 5

What is the scope of the 'globalVar' variable in Example 1?

JAVASCRIPT

```
1 let globalVar = "I'm a global variable";
2
3 function exampleFunction() {
4     console.log(globalVar);
5 }
6
7 console.log(globalVar);
```

Global scope

Function scope

Block scope

Local scope

Q. What is the main purpose of JavaScript in web development?

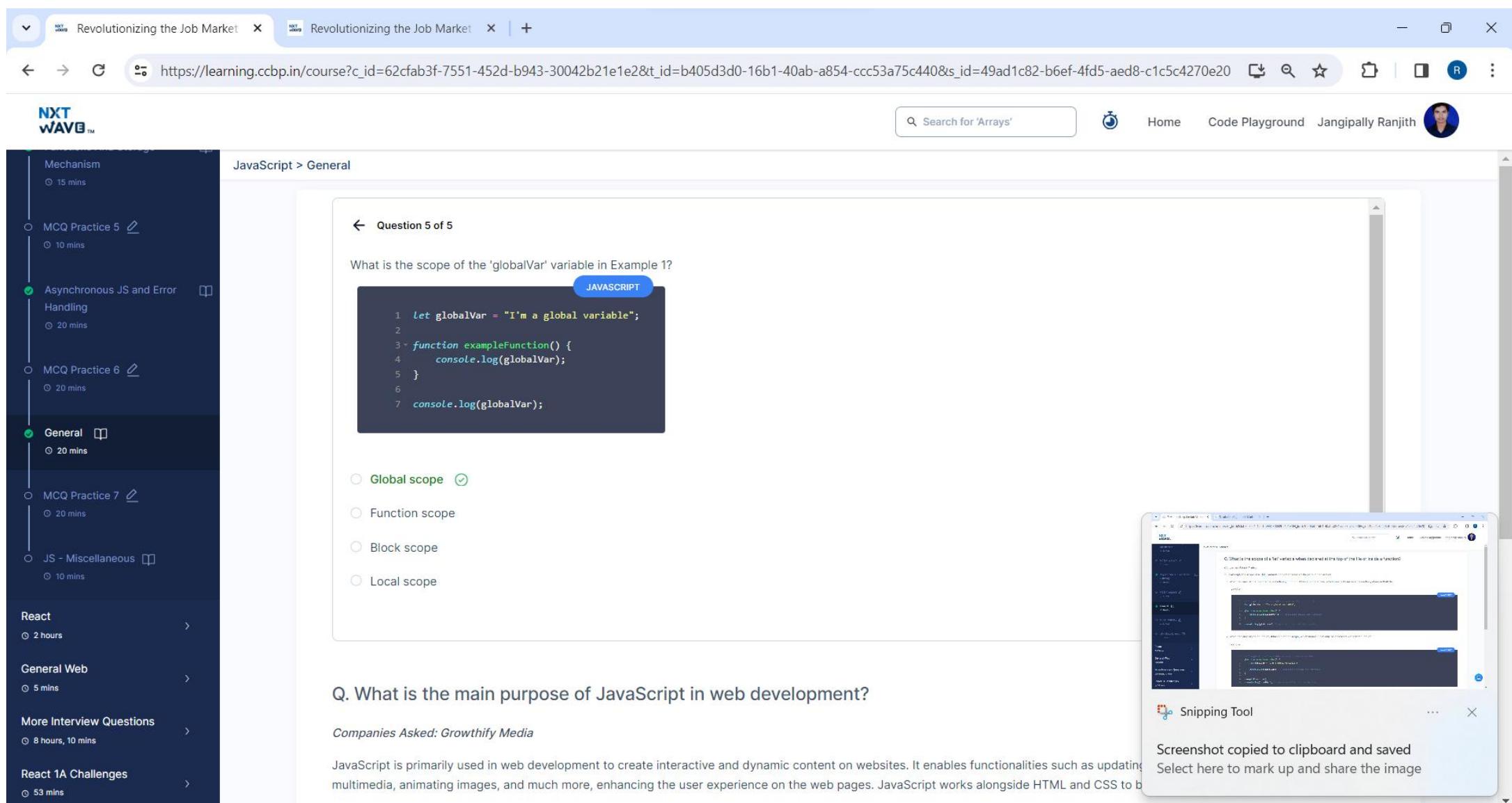
Companies Asked: Growthify Media

JavaScript is primarily used in web development to create interactive and dynamic content on websites. It enables functionalities such as updating multimedia, animating images, and much more, enhancing the user experience on the web pages. JavaScript works alongside HTML and CSS to b

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JavaScript > General

Q. What is the main purpose of JavaScript in web development?

Companies Asked: Growthify Media

JavaScript is primarily used in web development to create interactive and dynamic content on websites. It enables functionalities such as updating content dynamically, controlling multimedia, animating images, and much more, enhancing the user experience on the web pages. JavaScript works alongside HTML and CSS to build modern, interactive web applications.

Below, the main purposes and functionalities of JavaScript in web development are detailed:

- 1. Creating Interactive Websites**

JavaScript helps in creating interactive web elements such as sliders, pop-ups, form validations, and dynamic content updates without requiring the page to reload.
- 2. Client-Side Processing**

JavaScript is executed on the client's browser, which means it utilizes the user's computer resources to execute the code.
- 3. Integration with APIs and Other Technologies**

JavaScript can integrate seamlessly with various APIs (Application Programming Interfaces) and other technologies to fetch data dynamically and display it on the webpage.
- 4. DOM Manipulation**

Through Document Object Model (DOM) manipulation, JavaScript allows developers to dynamically change the structure, style, and content of a web page.
- 5. Event Handling**

JavaScript enables event handling, which means it can detect and respond to events such as clicks, form submissions, or mouse movements.
- 6. AJAX and Asynchronous Programming**

With AJAX (Asynchronous JavaScript and XML), JavaScript can communicate with the server and update parts of a webpage without reloading the entire page.
- 7. Supports Numerous Libraries and Frameworks**

JavaScript supports a wide array of libraries and frameworks, such as React, Angular, and jQuery, which help in faster and more efficient web development.

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JavaScript > General

JavaScript enables event handling, which means it can detect and respond to events such as clicks, form submissions, or mouse movements.

6. AJAX and Asynchronous Programming

With AJAX (Asynchronous JavaScript and XML), JavaScript can communicate with the server and update parts of a webpage without reloading the entire page.

7. Supports Numerous Libraries and Frameworks

JavaScript supports a wide array of libraries and frameworks, such as React, Angular, and jQuery, which help in faster and more efficient web development.

8. Creating Animations and Graphics

JavaScript can be used to create animations, graphics, and other visual effects, enhancing the visual appeal of websites.

← Question 4 of 4

What is the term for JavaScript's ability to detect and respond to user interactions like clicks, form submissions, or mouse movements?

API Integration

Event Handling

DOM Manipulation

AJAX Communication

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JavaScript > General

Q. Does JavaScript execute code in parallel or sequentially when it's running?

Companies Asked: Growthify Media

JavaScript executes code sequentially, as it is single-threaded. This means it can only process one task at a time. However, it can also handle asynchronous operations allowing it to perform non-blocking tasks. Asynchronous behavior is achieved using mechanisms such as callbacks, promises, and async/await.

Example:

```
1 console.log('Start');
2
3 setTimeout(function(){
4   console.log('Timeout');
5 }, 0);
6
7 console.log('End');
```

JAVASCRIPT

In this example, 'Start' will be logged first, followed by 'End', and then 'Timeout'. Even though the timeout is set to 0 milliseconds, it is pushed to a task queue and only gets executed after all the main thread tasks are completed, demonstrating JavaScript's event loop and asynchronous nature in action. This showcases how JavaScript can handle tasks sequentially yet still accommodate asynchronous operations.

← Question 4 of 4

What is the output of the given code?

```
1 console.log('Start');
2
3 setTimeout(function()
```

JAVASCRIPT

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JavaScript > JS - Miscellaneous

Q. How much do you rate yourself in javascript?

Companies Asked: Algonox

I would rate myself as an **8** out of **10** in JavaScript. In the past 8 months, I've gained a conceptual understanding of various JavaScript concepts, such as array methods, managing asynchronous operations using promises, leveraging DOM manipulation techniques, working with local storage, and dynamically fetching and displaying data through API integrations.

I have applied these skills in real-world scenarios through projects like a to-do list application and a Wikipedia search tool, allowing me to gain practical experience.

Q. which method is used in dynamic websites server side generation or static side generation?

Companies Asked: Growthify Media

In dynamic websites, **server-side generation** (SSG) is the method used to generate web pages on the server in real-time in response to user requests. This means that the web server processes the request, retrieves data from databases or other sources, and then generates the HTML content of the web page on the fly before sending it to the user's browser.

Static site generation (SSG) is typically used in static websites, where the web pages are pre-generated before they are served to the user. In SSG, web pages are generated at build time, and the generated HTML files are served directly to the user without any server-side processing.

← Question 4 of 4

When does static site generation (SSG) typically generate web pages?

At runtime, in response to user requests.

During the build time, before user requests. ✓

After user requests, in real time

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JavaScript > JS - Miscellaneous

When does static site generation (SSG) typically generate web pages?

- At runtime, in response to user requests.
- During the build time, before user requests. ✓
- After user requests, in real-time.
- Randomly, with no specific timing.

Q. What is the difference between server-side rendering and client-side rendering?

Companies Asked: Growthify Media

Server-side rendering (SSR) and **client-side rendering (CSR)** are two methods used to display content on a user's browser.

In **server-side rendering**, the entire webpage content is generated on the server before it is sent to the user's browser. This implies that the page is ready to be displayed once it reaches the browser, leading to a faster initial page load time. However, any changes or updates on the page would require a full page reload, which can result in a less fluid user experience.

Client-side rendering, on the other hand, involves rendering the content directly in the browser using JavaScript. The initial load might take a bit longer compared to **SSR** because the browser receives a minimal HTML document first, and then JavaScript is used to generate the rest of the content dynamically. This method allows for a more interactive and fluid user experience as updates can be made without reloading the entire page.

Both approaches have their pros and cons, and choosing one over the other would depend on the specific requirements of the application, such as the need for a faster initial load time, a rich interactive user experience. It is also possible to use a hybrid approach that combines the benefits of both **SSR** and **CSR**.



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rich interactive user experience. It is also possible to use a hybrid approach that combines the benefits of both SSR and CSR.

← Question 4 of 4

In server-side rendering (SSR), when is the webpage content generated?

The webpage content is generated on the client's browser.

The webpage content is generated on the server before it is sent to the client's browser. ✓

The webpage content is generated using JavaScript after the initial page load.

The webpage content is generated when the client interacts with the webpage.

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Notes

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