



Top JavaScript Coding Interview Questions

1. Remove duplicate elements from an Array

To remove duplicate elements from an array using JavaScript, you can use the following approach :

A code editor window with a dark background and a tab titled 'code.js'. It contains JavaScript code that creates an array with duplicates and uses the filter method to keep only the first occurrence of each element. The output is logged to the console.

```
const array = [1, 4, 5, "Banana", 6, 1, 4, 4, 9, 3, "Banana"];

const uniqueElements = array.filter((element, index) => {
  return array.indexOf(element) === index
});

console.log(uniqueElements);

//Output: [1, 4, 5, "Banana", 6, 9, 3]
```

2. Write a Function to generate a Fibonacci series of a given length.

```
function fibonacci(length) {  
  // Initializing the array with the first two numbers of the series  
  const fibArray = [0, 1];  
  
  // Generating the rest of the series  
  for (let i = 2; i < length; i++) {  
    fibArray.push(fibArray[i-1] + fibArray[i-2]);  
  }  
  
  return fibArray;  
}  
  
const series = fibonacci(7);  
  
console.log(series); //Output: [0, 1, 1, 2, 3, 5, 8]
```

3. Reverse String using inbuilt methods and without methods

- Reversing string with methods

Converting string to array of characters

```
1 let string = "javascript";  
2  
3 let reversedString = string.split('').reverse().join('');  
4  
5 console.log(reversedString);  
6 //Output: tpircsavaj
```

Reversing array elements

Getting array as a string

4. Swap the values of two variables without the need for a temporary third variable.



```
1  let x = 5;
2  let y = 10;
3
4  [x, y] = [y, x];
5
6  console.log(x); // 10
7  console.log(y); // 5
```

Destructuring assignment to swap the values by creating a new array

- Reversing string without methods

iterating over the string from the last character to the first character

```
1 let string = "javascript";
2
3 let reversedString = '';
4
5 for (let index = string.length - 1; index >= 0; index--) {
6   reversedString += string[index];
7 }
8
9 console.log(reversedString);
10 // Output: tpircsavaJ
```

Decreasing index until the first character comes.

Appending characters