

# JavaScript Concepts you Should Know



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Hey Everyone 🙌

Javascript is **everywhere**. Millions of webpages are built on JS.

Let's discuss some of the **basic concept of javascript** which are **important to learn** for any Javascript developer.

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# Scope

Scope determines the **accessibility** of variables, objects and functions.

- In Javascript, a variable has **3 types of scope** :
  - a. Block Scope
  - b. Function Scope
  - c. Global Scope

# Hoisting

Hoisting in Javascript is a **behavior** in which a **function or variable** can be used **before declaration**.

- In terms of variable and constant keyword **var** is hoisted, and **let** and **const** does not allow hoisting.

```
test = 6;  
// using test before declaring  
console.log(test);  
var test;
```

# Closures

Closure means that an **inner function** always has **access** to the **variable** of its **outer function**, even after the outer function has returned.

```
const first = () => {
  let greet = 'Hello';
  const second = () => console.log(greet);
  return second;
}

const newFun = first();
// Hello
```

# Callbacks

A **callback function** can be defined as a function passed into another function as a parameter.

```
// function
function greet(name, callback) {
  console.log('Hi' + ' ' + name);
  callback();
}

// callback function
function callMe() {
  console.log('I am callback function');
}

// passing function as an argument
greet('Peter', callMe);
```

# Promises

Promises is a good way to handle asynchronous operations.

- It's used to find out if the asynchronous operation is successfully completed or not.
- A promise may have one of three states
  - Pending
  - Fulfilled
  - Rejected

# Async & Await

Stop and wait until something is resolved.

- We use the `async` keyword with a function to represent that the function is an `asynchronous` function.
- The `async` function returns a promise.

```
const showPost = async() => {
  const res = await fetch('https:xyz.com/post')
}

showPost();
```

- I have already made posts on all this concept in detail.
- If you have any queries then let me know in the comment box.

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# THANKS FOR YOUR ATTENTION



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