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JavaScript Hoisting







Hey Everyone 👋

In this post, we will learn about Javascript Hoisting with the help of Examples.

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Javascript Hoisting

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

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

- The above program works and the output will be undefined.
- The above program behaves as:

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



Variable Hoisting

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

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

- In above example, variable a is used before declare it, displays the output 5
- the program behave as:

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





 However in Javascript, initializations are not hoisted.

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

Output
undefined
```

The above program behave as:

```
var a;
console.log(a);
a = 5;
Output
undefined
```

Only the declaration is moved to the memory in the compile phase.





 Also, when the variable is used inside the function, the variable is hoisted only to the top of the function.

```
// program to display value
var a = 4;

function greet() {
  b = 'hello';
  console.log(b); // hello
  var b;
}

greet(); // hello
console.log(b);
```

- b is hoisted to the top of the function greet and become a local variable.
- hence b is only accessible inside the function.
- b is not become global variable

```
hello
Uncaught ReferenceError: b is not defined
```

 if a variable is used with the let or const keyword, that variable is not hoisted.

```
// program to display value
a = 5;
console.log(a);
let a
```

```
Output

Uncaught ReferenceError: Cannot access 'a' before initialization
```

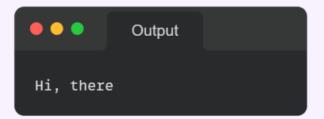
 NOTE: While using let, the variable must be declared first.



Function Hoisting

 a function can be called before declare it.

```
// program to print the text
greet();
function greet() {
  console.log('Hi, there.');
}
```



- In the above program, the function greet is called before declaring it and the program shows the output.
- This is due to hoisting.



 However, when a function is used as an expression, an error occurs because only declarations are hoisted.

```
// program to print the text
greet();

Uncaught ReferenceError: greet is not defined

console.log('Hi, there.');
}
```

- that's why arrow function is not hoisted.
- If var was used in the above program,
 the error would be:

```
Output

Uncaught TypeError: greet is not a function
```



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