JavaScript
Fundamenals

" Hoisting "

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

:

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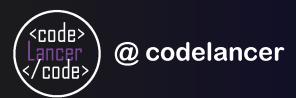
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Variable Hoisting

In terms of variables and constants
keyword **var** is **hoisted**
and **let** and **const** does **not allow** hoisting

```javascript
// program to display value

a = 5;

console.log(a);

var a; // 5
```

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In the previous example
variable **a** is used before declaring it
And the program works and displays the output **5**

The program behaves as

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

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However in JavaScript
initializations are not hoisted

Input

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

Output

```
undefined
```

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Let

If a variable is used with the let keyword
that variable is not hoisted
because the variable must be declared first

Input

```
// program to display value

a = 5;

console.log(a);

let a; // error
```

Output

Uncaught ReferenceError: Cannot access 'a' before initialization

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Function Hoisting

A function can be called before declaring

Input

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


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

Output

```
Hi, there
```

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

Input

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

let greet = function() {
    console.log('Hi, there.');
}
```

Output
```
Uncaught ReferenceError: greet is not defined
```

If we use **Var** Instead using **Let** an **error** accurs

Output
```
Uncaught TypeError: greet is not a function
```

@mohamedbrzan

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