

2. Hoisting

2.1 Function Declarations

Hoisting is a JavaScript mechanism where **function declarations** are moved to the top of their scope before code execution.

JAVASCRIPT

```
1 let x = 15;
2 let y = 10;
3 let result = add(x, y);
4 console.log(result); // 25
5
6 function add(a, b) {
7     return a + b;
8 }
```

2.2 Function Expressions

Function expressions in JavaScript are not hoisted.

JAVASCRIPT

```
1 myFunction();
2 ⚠ let myFunction = function () {
3     let x = 5;
4     console.log(x); // ReferenceError{"Cannot access 'myFunction' before initializat
5 };
```

2.3 Arrow Functions

Arrow Functions in JavaScript are not hoisted.

JAVASCRIPT

```
1 myFunction();
2 ⚠ let myFunction = () => {
3     let x = 5;
4     console.log(x); // ReferenceError{"Cannot access 'myFunction' before initializat
5 };
```