

## Introduction to Loops

In JavaScript, loops are used to execute a block of code repeatedly until a certain condition is met. There are several types of loops available in JavaScript:

- **for** loop
- **while** loop
- **do...while** loop
- **for...in** loop
- **for...of** loop (Introduced in ES6)

## Examples of Loops

### 1. for Loop

```
for (let i = 0; i < 5; i++) {  
    console.log(i);  
}
```

### 2. while Loop

```
let i = 0;  
while (i < 5) {  
    console.log(i);  
    i++;  
}
```

### 3. do...while Loop

```
let i = 0;  
do {  
    console.log(i);  
    i++;  
} while (i < 5);
```

### 4. for...in Loop

```
const person = {
```

```
        name: 'John',
        age: 30,
        gender: 'male'
    };

    for (let key in person) {
        console.log(key + ': ' + person[key]);
    }
```

## 5. for...of Loop

```
const array = [1, 2, 3, 4, 5];
for (let value of array) {
    console.log(value);
}
```

Loops are essential for iterating over arrays, objects, and performing repetitive tasks in JavaScript.