



JAVASCRIPT MASTERY

3. Loops in JavaScript

1. for loop

- Repeats a block of code a specific number of times.
- Example:

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

2. while loop

- Executes a block while a condition is true.
- Example:

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

3. do...while loop

- Executes a block at least once before checking the condition.
- Example:

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



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4. `forEach` loop (for arrays)

- Iterates over each element in an array.
- Example:

```
[1, 2, 3].forEach(num => console.log(num));
```

5. `for...in` loop (for objects)

- Iterates over object properties.
- Example:

```
let obj = { a: 1, b: 2 };
for (let key in obj) {
    console.log(key, obj[key]);
}
```

6. `for...of` loop (for iterables)

- Iterates over iterable objects like arrays and strings.
- Example:

```
let arr = [10, 20, 30];
for (let value of arr) {
    console.log(value);
}
```