

JavaScript Loops: While & For

1. While Loop

A while loop repeatedly executes a block of code as long as a specified condition is true.

```
let i = 0;

while (i < 5) {
  console.log("Count: " + i);
  i++;
}
```

Explanation:

This loop starts with $i = 0$ and prints until i becomes 5. The condition is checked before each iteration.

2. Do...While Loop

A do...while loop is similar to while, but it guarantees that the block executes at least once.

```
let j = 0;

do {
  console.log("Count: " + j);
  j++;
} while (j < 5);
```

Explanation:

This loop executes the block once before checking the condition.

3. For Loop

A for loop is commonly used when the number of iterations is known.

```
for (let k = 0; k < 5; k++) {
  console.log("Step: " + k);
}
```

Explanation:

The for loop includes initialization, condition, and update all in one line.