Types Of Loops ...

- while
- do-while
- for
- forEach()
- for...in
- for...of





The while statement generates a loop that gets executed over a particular block of statement (code) as long as the condition is true. Every time before executing the block of code the condition gets checked.

```
let i = 0;
while (i < 5) {
   console.log(i);
   i++;
} // 0 1 2 3 4</pre>
```

The do-while loop is similar to the while loop, but it executes the block of code at least once, even if the condition is false.

```
let i = 5;
do {
   console.log(i);
   i++;
}
while (i < 5); // Output: 5</pre>
```

In case of for loop the declaration & initialization of looping variable, condition checking & increment or decrements of the looping variable can be done in the same line.

```
// Syntax...
for ([initialization]; [condition]; [final - expression]) {
   Block of code
}

// Example
for (let i = 0; i < 5; i++) {
   console.log(i);
} // 0 1 2 3 4</pre>
```

The forEach() method is used to iterate over the elements of an array.

```
const numArray = [1, 2, 3];
numArray.forEach(value => {
   console.log(value);
}); // 1, 2, 3
```

The for...in loop is used to iterate over the properties of an object.

```
// Syntax
for (variableName in object) {
   Block of code
}
// Example
const obj = { a: 1, b: 2, c: 3 };
for (let prop in obj) {
   console.log(`${prop}: ${obj[prop]}`);
} // Output: a: 1 b: 2 c: 3
```

The for...of loop is used to iterate over the values of an iterable object, such as an array or a string.

```
// Syntax
for (variable of iterable) {
  Block of code
// Example
const arr = [1, 2, 3];
for (let value of arr) {
  console.log(value);
} // 1 2 3
```