

Day 5



Javascript
THE LANGUAGE OF THE WEB

While loops in JavaScript:

What is a while Loop?

A while loop in JavaScript is used to run a block of code repeatedly as long as a given condition is true. If the condition becomes false, the loop stops running.

Syntax

```
while (condition) {  
    // code to execute repeatedly  
}
```

Part	Meaning
condition	The loop keeps running as long as this condition is true
code block	The statements inside {} run each time before checking the condition again

Example: using while loop prints number from 0 to n-1

```
> let n = prompt("Enter the value of n: ");  
n = Number.parseInt(n);  
let i = 0;  
while (i<n) {  
    console.log(i);  
    i++;  
}  
0  
1  
2
```

Example: to print from 0 to n

```
10 let n = 3;
11 let i = 0
12 while (i<=n) {
13     console.log(i);
14     i++;
15 }
```

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```
● PS E:\JavaScript\Day1-10\Day5> node main.js
0
1
2
3
```

While loops in JavaScript:

What is a do...while Loop?

A do...while loop is a type of loop that executes the code block at least once, and then repeats it as long as the given condition is true.

Note: *The main difference from a while loop is that: do...while checks the condition after running the code once.*

Syntax

```
do {
    //code to execute
} while (condition);
```

Example: printing 0 to n-1

```
17 //Do while loop
18 //Program to print from 0 to n-1 using do while loop
19 let n = 3;
20 let i = 0;
21 do {
22     console.log(i);
23     i++;
24 } while (i<n);
```

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```
● PS E:\JavaScript\Day1-10\Day5> node main.js
0
1
2
```

Example: printing 0 to n

```
17 //Do while loop
18 //Program to print from 0 to n using do while loop
19 let n = 3;
20 let i = 0;
21 do {
22     console.log(i);
23     i++;
24 } while (i<=n);
```

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```
● PS E:\JavaScript\Day1-10\Day5> node main.js
0
1
2
3
```

Example: here the condition doesn't meet, so ran at least for once.

```
26 //Do while loop to show that it runs atleast once
27 let n = 4;
28 let i = 10;
29 do {
30     console.log(i);
31     i++;
32 } while (i<n);
```

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```
● PS E:\JavaScript\Day1-10\Day5> node main.js
10
```

--The End--