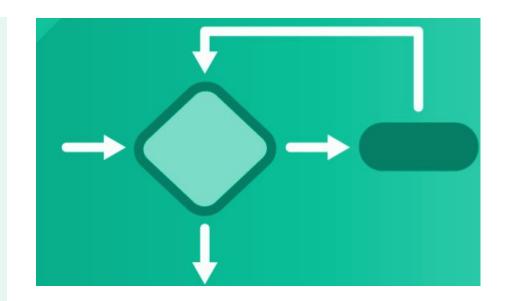
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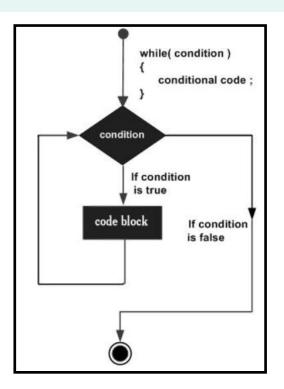
Javascript Loops



 The While Loop is a control flow statement used to execute the code repeatedly as long as the condition is true.

Syntax

```
while (condition) {
  // code block to be executed
}
```



Do While

Loop

- Similar to repeated if statements.
- The while loop is an entry controlled loop, i.e The block control condition is at the starting of the loop.
- The JavaScript while loop is used when the **number of iterations** are **not known**.

Do While

Loop

While Loop Example

```
let str = "";
let i = 0;
while (i < 5) {
   str += "<br>The number is " + i;
   i++;
}
```

Output

JavaScript While Loop

```
The number is 0
The number is 1
The number is 2
The number is 3
The number is 4
```

- In the code above, the statement inside the loop will run until the value of **i** is **less than 5.**
- The loop variable should be incremented or decremented. If not, the loop will never end and will crash the system.

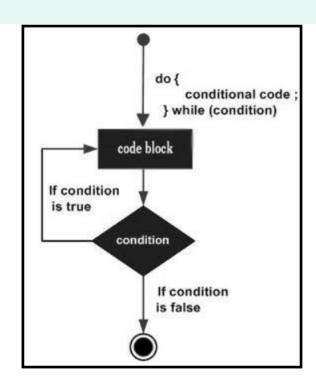
- The Do While Loop is an **Exit controlled loop,** i.e. the block **condition** is at the **end** of the loop.
- The Do While Loop executes the loop statement before checking the condition.

Do While

Loop

Syntax

```
do {
   // code block to be executed
}
while (condition);
```



- It is **similar** to a **while** loop. The code will be executed **at least once** because the **condition** check happens at the **end** of the loop.
- The Do While Loop is executed an **infinite number of times** like While loop.

Do While Loop Example

```
let str = ""
let i = 0;
do {
   str += "<br>The number is " + i;
   i++;
}
while (i < 5);</pre>
```

Output

JavaScript Do While Loop

The number is 0
The number is 1
The number is 2
The number is 3
The number is 4

- In the above code, the statement inside the loop will run until the value of **i** is **less than 5.**
- Since the condition **check** is at the **end point**, the loop will be executed at least **once** even if the **condition** is **false**.
- The loop variable should be incremented or decremented. If not, the Loop will never end and will crash the system.

While Loop	Do While Loop
It is an entry controlled loop .	It is an exit controlled loop .
The number of iteration is based on the loop condition .	The loop will be executed at least once , even before the execution of the condition .
The condition check happens at the start of the loop.	The condition check happens at the end of the loop.