

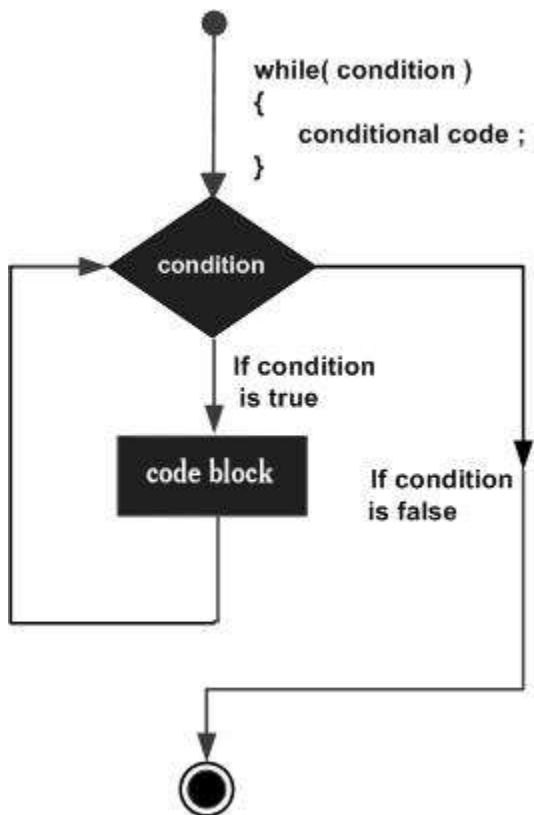
JavaScript - While Loops

The while Loop

The most basic loop in JavaScript is the **while** loop which would be discussed in this chapter. The purpose of a **while** loop is to execute a statement or code block repeatedly as long as an **expression** is true. Once the expression becomes **false**, the loop terminates.

Flow Chart

The flow chart of **while loop** looks as follows –



Syntax

The syntax of **while loop** in JavaScript is as follows –

```
while (expression) {  
    Statement(s) to be executed if expression is true  
}
```

Example

Try the following example to implement while loop.

```
<html>  
  <body>
```

```

<script type = "text/javascript">
    <!--
        var count = 0;
        document.write("Starting Loop ");

        while (count < 10) {
            document.write("Current Count : " + count + "<br>");
            count++;
        }

        document.write("Loop stopped!");
    //-->
</script>

    <p>Set the variable to different value and then try...</p>
</body>
</html>

```

Output

```

Starting Loop
Current Count : 0
Current Count : 1
Current Count : 2
Current Count : 3
Current Count : 4
Current Count : 5
Current Count : 6
Current Count : 7
Current Count : 8
Current Count : 9
Loop stopped!

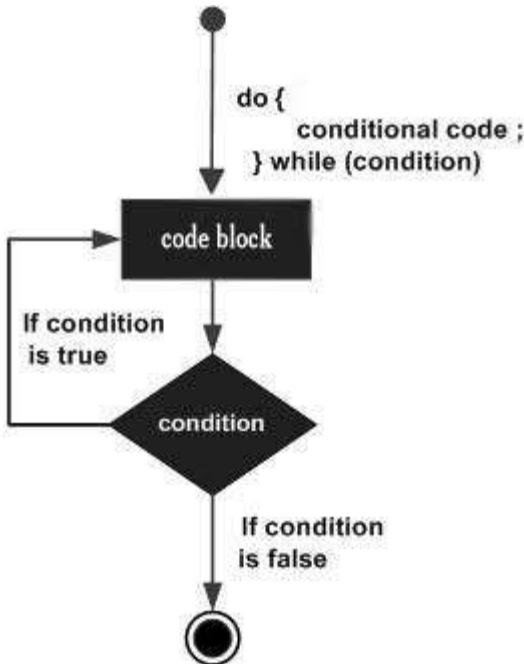
```

The do...while Loop

The **do...while** loop is similar to the **while** loop except that the condition check happens at the end of the loop. This means that the loop will always be executed at least once, even if the condition is **false**.

Flow Chart

The flow chart of a **do-while** loop would be as follows –



Syntax

The syntax for **do-while** loop in JavaScript is as follows –

```
do {
    Statement(s) to be executed;
} while (expression);
```

Note – Don't miss the semicolon used at the end of the **do...while** loop.

Example

Try the following example to learn how to implement a **do-while** loop in JavaScript.

```
<html>
    <body>
        <script type = "text/javascript">
            <!--
                var count = 0;

                document.write("Starting Loop" + "<br />");
                do {
                    document.write("Current Count : " + count + "<br />");
                    count++;
                }

                while (count < 5);
                document.write ("Loop stopped!");
            //-->
        </script>
<p>Set the variable to different value and then try...</p>
```

```
</body>  
</html>
```

Output

```
Starting Loop  
Current Count : 0  
Current Count : 1  
Current Count : 2  
Current Count : 3  
Current Count : 4  
Loop Stopped!
```