while loop in C

A **while** loop in C programming repeatedly executes a target statement as long as a given condition is true

Syntax

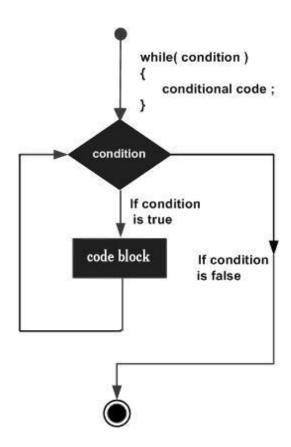
The syntax of a while loop in C programming language is -

```
while(condition) {
   statement(s);
}
```

Here, **statement(s)** may be a single statement or a block of statements. The **condition** may be any expression, and true is any nonzero value. The loop iterates while the condition is true.

When the condition becomes false, the program control passes to the line immediately following the loop

Flow Diagram



Here, the key point to note is that a while loop might not execute at all. When the condition is tested

and the result is false, the loop body will be skipped and the first statement after the while loop will

be executed.

Example

When the above code is compiled and executed, it produces the following result –

```
Number of 'MissedCalls' from Covid19 is: 10
Number of 'MissedCalls' from Covid19 is: 11
Number of 'MissedCalls' from Covid19 is: 12
Number of 'MissedCalls' from Covid19 is: 13
Number of 'MissedCalls' from Covid19 is: 14
Number of 'MissedCalls' from Covid19 is: 15
Number of 'MissedCalls' from Covid19 is: 16
Number of 'MissedCalls' from Covid19 is: 17
Number of 'MissedCalls' from Covid19 is: 18
Number of 'MissedCalls' from Covid19 is: 19
[Finished in 3.2s]
```