LOOPS IN C

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Abstract- You may encounter situations, when a block of code needs to be executed several number of times. In general, statements are executed sequentially: The first statement in a function is executed first, followed by the second, and so on. Programming languages provide various control structures that allow for more complicated execution paths. A loop statement allows us to execute a statement or group of statements multiple times. A loop statement allows us to execute a statement or group of statements multiple times. Given below is the general form of a loop statement in most of languages programming - C programming language provides the following types of loops to handle looping requirements.

Index Terms— loops ,statements, programming languages, function.

I. INTRODUCTION

Loops are used to repeat a block of code Types of loops:-

1. for loop

The most commonly used loop is for loop.

SYNTAX:-

```
for ( variable initialization; condition; variable update )
{
   Code to execute while the condition is true
}
```

2. while loop

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

SYNTAX:-

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

3. do-while loop

A do...while loop is similar to a while loop, except the fact that it is guaranteed to execute at least one time.

SYNTAX:-

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

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II. LOOP TYPE AND DESCRIPTION

III. LOOP CONTROL STATEMENTS

S.N.	Loop Type & Description
1	while loop Repeats a statement or group of statements while a given condition is true. It tests the condition before executing the loop body.
2	for loop Executes a sequence of statements multiple times and abbreviates the code that manages the loop variable.
3	dowhile loop It is more like a while statement, except that it tests the condition at the end of the loop body.
4	nested loops You can use one or more loops inside any other while, for, or dowhile loop.

S.N.	Control Statement & Description
1	break statement Terminates the loop or switch statement and transfers execution to the statement immediately following the loop or switch.
2	continue statement Causes the loop to skip the remainder of its body and immediately retest its condition prior to reiterating.
3	goto statement Transfers control to the labeled statement.