



LOOP in C Programming

हर सुबह एक
नया अवसर है,
बस खुद पर
विश्वास रखो।

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“महत्वपूर्ण बात यह नहीं है कि हर बच्चे को पढ़ाया जाना चाहिए, बल्कि हर बच्चे को सीखने की इच्छा दी जानी चाहिए।”



loop in c programming



In C programming, a loop is a control structure that repeatedly executes a block of code as long as a specified condition is true.  Loops are fundamental in programming and help to avoid code repetition.

Types of Loops in C

- while Loop
- for Loop
- do-while Loop
- Infinite Loop



while Loop



Used when the condition needs to be checked before the execution of the loop body.

Syntax:

```
while (condition) {  
    // Code to be executed  
}
```

Example:

```
int i = 0;  
while (i < 5) {  
    printf("Iteration %d\n", i);  
    i++;  
}
```

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for Loop



- Used when the number of iterations is known beforehand.

Syntax:

```
for (initialization; condition; increment/decrement)
{
    // Code to be executed
}
```

Example:

```
for (int i = 0; i < 5; i++)
{
    printf("Iteration %d\n", i);
}
```

“जो हम खुशी से सीखते हैं उसे हम कभी नहीं भूलते।”



do-while Loop

Similar to the while loop, but the loop body is executed at least once because the condition is checked after execution.

Syntax:

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

Example:

```
int i = 0;
do {
printf("Iteration %d\n", i);
i++;
} while (i < 5);
```

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Infinite Loop

A loop that runs indefinitely until explicitly terminated with a break or exit statement.

Example:

```
while (1)
{ // or for(;;)
printf("This is an infinite loop.\n");
break; //
Stops the loop
}
```

मंज़िल उन्हीं को मिलती है, जिनके सपनों में जान होती है!!
पंख से कुछ नहीं होता, हौसलों से उड़ान होती है!

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