

Programming Fundamentals with

C Programming

Module 02



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Loops in C – for Loop

Repeating Tasks Efficiently

Class 08



Why Loops?

- To execute a block of code multiple times.
- Avoid repetition of code.
- Useful for tasks like:
 - Counting numbers
 - Calculating sum or product
 - Printing patterns

Syntax of FOR Loop

```
for (initialization; condition; increment/decrement) {  
    // statements to execute  
}
```

- **Initialization:** Start value of loop variable
- **Condition:** Loop runs as long as condition is true
- **Increment/Decrement:** Update loop variable after each iteration

