1st semste C module  
This module covers iteration in C programming. Students will explore:

- While loops: syntax, logic, common mistakes

- For loops: nested loops, loop control, increment variations

- Do-while loops: when to use, how it differs from other loops

- Practical use-cases: printing patterns, summing arrays, and simple menu-driven programs

By the end of this module, students should be able to:

- Write efficient loops using different types

- Avoid infinite loops and off-by-one errors

- Use loops in real-world C programming problems