3. FACTORIAL WITHOUT RECURSION

**Aim**

To write a C program to calculate the factorial of a given number using a **non-recursive function** (iteration method).

**Algorithm**

1. **Start**.
2. Define a function factorial(unsigned int N).
3. Initialize fact = 1.
4. Repeat a loop from i = 1 to N:
   * Multiply fact = fact \* i.
5. Return the value of fact.
6. In main():
   * Read or assign a number N.
   * Call the function factorial(N) and store the result.
   * Print the factorial.
7. **Stop**.

PROGRAM

