5. FACTORIAL WITH RECURSION

**Aim**

To write a C program to calculate the factorial of a given number using **recursion**.

**Algorithm**

1. Start
2. Define a recursive function factorial(n):
   * If n == 1, return 1.
   * Else, return n \* factorial(n-1).
3. In main():
   * Initialize a number (e.g., num = 5).
   * Call the recursive function factorial(num).
   * Print the result.
4. Stop

PROGRAM

