**ASSIGNMENT NO: 6**

**AIM:** Write a C function to compute factorial of the given number using recursion

**OBJECTIVE:**

1. To learn and understand Functions in C
2. To learn and understand Recursive Function.

**THEORY: (Write Theory Part with reference to following points.)**

User Defined Function : Declaration, Definition, call to function syntax and example

Use of Return statement,

What is Formal and Actual argument?

**Platform: Windows/64 –bit Open source Linux/MAC**

**Technology: Open Source C++ Programming tool like G++/GCC.**

# ALGORITHM: (write down the algorithm in technical format)

# FLOWCHART: (draw the flowchart from draw.io; download the image in jpeg or png format,Paste it in the assignment)

**Program: (Paste Code here)**

**INPUT: Any input number (eg. 5)**

**OUTPUT: Factorial of number=120**

**CONCLUSION:** Thus implemented the program to compute factorial using recursion.

**FAQ: (Write Answer for the following Questions)**

1. **What is Recursion Function?**
2. **What are local variables?**