**FIND THE FACTORIAL USING FUNCTION**

**AIM:**

To write a c program to find the factorial of a number using function recursion.

**ALGORITHM:**

1. START
2. Read the number n
3. Call recursiveFactorial(n)
4. Print factorial fac

recursiveFactorial(n):

1. If n==1 then retrun 1
2. Else factorial \* recursiveFactorial(n-1)

**SOURCE CODE:**

#include<stdio.h>

#include<conio.h>

int recursiveFunction(int);

void main(){

int num,fac;

printf("Enter the number=");

scanf("%d",&num);

fac=recursiveFunction(num);

printf("The factorial is %d",fac);

getch();

}

int recursiveFunction(int n){

if(n>1) return n\*recursiveFunction(n-1);

else return 1;

}

**OUTPUT:**

Enter the number=5

The factorial is 120