Aim:-Develop a program to demonstrate concept of recursion(Factorial)

Algorithm:-

Step 1:Start program

Step 2:Ask the user to enter an integer to find the factorial

Step 3:Read the integer and assign it to a variable.

Step 4:From the value of the integer up to 1,multiply each digit and update the final value

Step 5:The final value at the end of all the multiplication till 1 is the factorial

Step 5:End program

Program:-

#include<stdio.h>

int fact(int);

int main()

{

int x,n;

printf(“Enter the Number to find factorial:”);

scanf(“%d”,&n);

x=fact(n);

printf(“Factorial of %d is %d”,n,x);

return 0;

}

int fact(int n)

{

if(n==0)

return (1);

return (n\*fact(n-1));

}

