TITLE 23

Find factorial of number using recursion

OBJECTIVE:

Implementation of recursions.

PROBLEM STATEMENT:

In this problem we need to calculate the factorial value of numbers using recursion.

ALGORITHM:

START

Define variables: n,i,x

INPUT: Read input from the user

COMPUTATION: Compute the factorial of numbers

DISPLAY: Print factorial value as output

STOP

PROGRAM:

#include <stdio.h>

int fact(int n);

int main()

{ int x, i;

printf("Enter a number: ");

scanf("%d", &n);

i = fact(n);

printf(" Factorial of %d is %d", n, i);

return 0;

int fact(int n)

if (x <= 0)

return (1);

else

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

}

CONCLUSION:

Mathematical approach via coding using simple algorithms.

OUTPUT:

Enter a number:4

Factorial:24