

ExNo 76
Date:
15-11-2021

Title:

Recursive Function

Algorithm:

Step 1: Start

Step 2: Declare all the required variables and function fact(int).

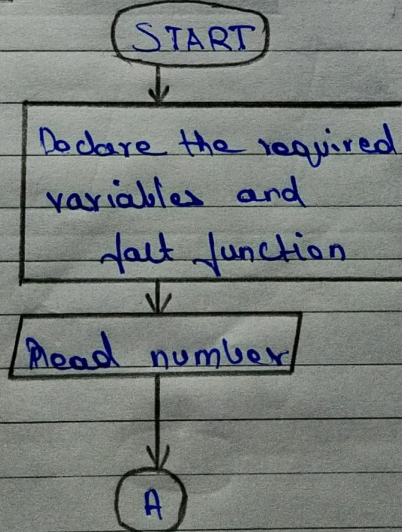
Step 3: Get number from the user.

Step 4: Call the function fact(n) with arguments as the reference variable.

Step 5: Check if $n == 0$. If true, return 1.
Else return $(n * \text{fact}(n-1))$.

Step 6: Display the factorial of the number.

Flow chart:



Expected Output:

Enter number : 5
factorial of 5 is 120

Sample Outputs:

- (i) Enter number : 4
Factorial of 4 is 24
- (ii) Enter number : 3
factorial of 3 is 6
- (iii) Enter number : 8
factorial of 8 is 40320
- (iv) Enter number : 6
factorial of 6 is 720
- (v) Enter number : 9
factorial of 9 is 362880

START

before the program
variables are
not defined

program ends

