

Q.3 - Find the Factorial using Recursion.

Algorithm

Step 1:- Read the input num.

Step 2:- Check whether num == 0, if it is the show  $\rightarrow$  "Factorial = 1", else Step 3

Step 3:- Process method call for recursive process -  
i) After calling it will check num == 0 if yes then return 1; if no  $\rightarrow$  ii

ii) ~~will~~ call fact(n) method recursively until num != 0.

iii) After processing value will be returned in main method, on the calling line.

Step 4: Then show message  $\rightarrow$  "Factorial = " fact(n)

Step 5: Exit.

