**PROBLEM 1**

Factorial Calculator

If n is an integer greater than 0, n factorial (n!) is the product: n\* (n-1) \* (n-2) \* ( n-3)… \*

By convention, 0! = 1.

You must write a program that allows a user to enter an integer between 1 and 7.  
Your program must then compute the factorial of the number entered by the user.

Your solution MUST actually perform a computation (i.e., you may not simply print “5040” to the screen as a literal value if the input is 7).

**Example 1**

Enter a number: 4  
4! = 24

**Example 2**

Enter a number: 7  
7! = 5040