

In mathematics, the notation $n!$ represents the factorial of the nonnegative integer n . The factorial of n is the product of all the nonnegative integers from 1 through n . For example,

$$7! = 1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7 = 5040$$

$$4! = 1 \times 2 \times 3 \times 4 = 24$$

Create an application that lets the user enter a nonnegative integer and then uses a loop to calculate the factorial of that number. Display the factorial in a label or a message box.