

**Lab Goal :** This lab was designed to teach you how to use for loops and what factorial is.

**Lab Description :** Generate the factorial for any given number.

The factorial of 5 is  $5 \times 4 \times 3 \times 2 \times 1 = 120$ .

The factorial of 4 is  $4 \times 3 \times 2 \times 1 = 24$ .

**Files Needed ::**

Factorial.java  
Lab08h.java

**Sample Data :**

5  
4  
8  
15  
6  
9  
3

**Sample Output :**

factorial of 5 is 120

factorial of 4 is 24

factorial of 8 is 40320

factorial of 15 is 1307674368000

factorial of 6 is 720

factorial of 9 is 362880

factorial of 3 is 6

**algorithm help**

For loop starting at one and going to number  
sum of the multiplicative values of num