

Ex 1: Print the following patterns using loop :

a.

```
*  
**  
***  
****
```

b.

```
  *  
 ***  
*****  
 ***  
  *
```

c.

```
1010101  
 10101  
  101  
   1
```

Ex 2: Print multiplication table of 24, 50 and 29 using loop.

Ex 3: Factorial of any number n is represented by $n!$ and is equal to $1*2*3*...*(n-1)*n$. E.g.-

$$4! = 1*2*3*4 = 24$$

$$3! = 3*2*1 = 6$$

$$2! = 2*1 = 2$$

Also,

$$1! = 1$$

$$0! = 1$$

Write a Java program to calculate factorial of a number.