❖ Find factorial of a Number

Program1: Without using Function

```java
import java.util.*;
class FactorialExample
{
    public static void main(String args[])
    {
        int i, number, fact=1;
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter your number: ");
        number = sc.nextInt();


        for(i=1;i<=number;i++)
        {
            fact=fact*i;
        }
        System.out.println("Factorial of "+number+" is: "+fact);
    }
}
```

Program2: Using Function

```java
import java.util.*;
class Test
{
    static int factorial(int n)
    {
        int fact = 1, i;
        for (i = 1; i <= n; i++)
        fact = fact*i;
        return fact;
    }
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter your number: ");
        int number = sc.nextInt();
        int fact = factorial(number);
        System.out.println("Factorial of " +number+ " is " + fact);
    }
}
```

❖ Find first "n" prime numbers

Program1:

```java
import java.util.*;
class prime
{
    public static void main(String args[])
    {
        int n=2, count=0;
        System.out.println("First 50 prime numbers are:");
        while(count!=50)
        {
            int flag=0;
            for(int i=2; i<=n/2; i++)
            {
                if(n%i == 0)
                {
                    flag=1;
                    break;
                }
                if(flag==0)
                {
                    System.out.print(n+", ");
                    count++;
                }
                n++;
            }
        }
    }
}
```

Program2:

```java
import java.util.*;
public class PrimeNumbers
{
  public static void main(String[] args)
  {
      int num, count;
      Scanner sc = new Scanner(System.in);
      System.out.print("Enter number upto which you want Prime Numbers: ");
      num = sc.nextInt();

      for (int i = 1; i <= num; i++)
      {
          count = 0;
          for (int j = 2; j <= i / 2; j++)
          {
              if (i % j == 0)
              {
                  count++;
                  break;        // Exit loop if a divisor is found
              }
          }
          if (count == 0)
          {
          System.out.println(i);
          }
      }
  }
}
```

Program3:

```java
class GFG
{
    static boolean isPrime(int n)
    {
        //since 0 and 1 is not prime return false.
        if(n==1||n==0)return false;

        //Run a loop from 2 to n-1
        for(int i=2; i<n; i++)
        {
            if(n%i==0)return false;
        }
        //otherwise, n is prime number.
        return true;
    }


    // Driver code
    public static void main (String[] args)
    {
        int N = 100;

        for(int i=1; i<=N; i++)
        {
            if(isPrime(i))
            {
                System.out.print(i + " ");
            }
        }

    }
}
```