# Java Program to display first n or first 100 prime numbers

BY CHAITANYA SINGH | FILED UNDER: JAVA EXAMPLES

## Program to display first n prime numbers

```java
import java.util.Scanner;

class PrimeNumberDemo
{
   public static void main(String args[])
   {
      int n;
      int status = 1;
      int num = 3;
      //For capturing the value of n
      Scanner scanner = new Scanner(System.in);
      System.out.println("Enter the value of n:");
      //The entered value is stored in the var n
      n = scanner.nextInt();
      if (n >= 1)
      {
         System.out.println("First "+n+" prime numbers are:");
         //2 is a known prime number
         System.out.println(2);
      }

      for ( int i = 2 ; i <=n ;  )
      {
         for ( int j = 2 ; j <= Math.sqrt(num) ; j++ )
         {
            if ( num%j == 0 )
            {
               status = 0;
               break;
            }
         }
         if ( status != 0 )
         {
            System.out.println(num);
            i++;
         }
         status = 1;
         num++;
      }
   }
}
```
Output:

```
Enter the value of n:
15
First 15 prime numbers are:
2
```

```
3
5
7
11
13
17
19
23
29
31
37
41
43
47
```

**Program to display first 100 prime numbers**

To display the first 100 prime numbers, you can **either enter n value as 100 in the above program**OR write a program like this:

```java
class PrimeNumberDemo
{
    public static void main(String args[])
    {
        int n;
        int status = 1;
        int num = 3;
        System.out.println("First 100 prime numbers are:");
        System.out.println(2);
        for ( int i = 2 ; i <=100 ;  )
        {
            for ( int j = 2 ; j <= Math.sqrt(num) ; j++ )
            {
                if ( num%j == 0 )
                {
                    status = 0;
                    break;
                }
            }
            if ( status != 0 )
            {
                System.out.println(num);
                i++;
            }
            status = 1;
            num++;
        }
    }
}
```

Output:

```
First 100 prime numbers are:
2
3
5
7
11
13
17
```

19
23
29
31
37
41
43
47
53
59
61
67
71
73
79
83
89
97
101
103
107
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