```
//Parth Barot
//6/16/15
// lab 3


//purpose: build a formulae function method.
//input:  input the numbers of whether or not if the numbers are
prime numbers.
//processing:  calculate the number of being prime or not prime.
//output: display the output numbers of the integers by using
the Println output file.




import java.util.*;

public class PrimeNumber{

   public static void main (String []args){
   //data dictionary
      Scanner kbd = new Scanner(System.in);
      int buffer = 0;
      System.out.println("This program is a number convertor");
      System.out.println("input integer greater than or equal to
1 ");
      System.out.println("Enter -1 to quit");

      do{
         System.out.println(" Enter a nmumber to test for
printing");
         buffer =kbd.nextInt();
         if (isPrime(buffer))  {
            System.out.println( buffer + " is prime");
         }
         else {
            System.out.println(buffer + "is not a prime");
         }
      }while(buffer != -1);

   }

   public static boolean isPrime(int i){
      if(i ==1 )
```

```
            return true;
        if (i==2)
            return true;
        if (i % 2==0)
            return false;
        for( int j= 3;j < i ; j = j+2){
            if(i % j == 0)  {
                return false;
            }
        }
        return true;
    }
}
```

Output

```
 ----jGRASP exec: java PrimeNumber

This program is a number convertor
input integer greater than or equal to 1
Enter -1 to quit
 Enter a nmumber to test for printing
5
5 is prime
 Enter a nmumber to test for printing
8
8is not a prime
 Enter a nmumber to test for printing
-1
-1 is prime

 ----jGRASP: operation complete.
```