//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

