```java
1  //46. Create a program using for to display if a
   number is prime or not.
2  import java.util.Scanner;
3
4  public class Prime_Check {
5      public static void main(String[] args) {
6          Scanner sc = new Scanner(System.in);
7          System.out.print("Enter a number: ");
8          int num = sc.nextInt();
9
10         boolean isPrime = true;
11         if (num <= 1) isPrime = false;
12         else {
13             for (int i = 2; i <= num / 2; i++) {
14                 if (num % i == 0) {
15                     isPrime = false;
16                     break;
17                 }
18             }
19         }
20
21         if (isPrime) System.out.println(num + " is
   prime.");
22         else System.out.println(num + " is not prime
   .");
23     }
24 }
25
```