

```
1 //30. Create a program to check whether a given
   number is prime.
2 import java.util.Scanner;
3
4 public class PrimeChecker {
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         sc.close();
10
11         System.out.println(num + (isPrime(num) ? " is
   a prime number." : " is not a prime number."));
12     }
13
14     public static boolean isPrime(int num) {
15         if (num < 2) return false;
16         for (int i = 2; i * i <= num; i++) {
17             if (num % i == 0) return false;
18         }
19         return true;
20     }
21 }
22
23
```