Day 20 coding Statement : Write a program to identify if the number is Prime number or not

Description

Get a number as input from the user and check whether that number is prime or not.

A prime number is a number with factors as 1 and that number itself.

Input

1

Output

1 is not a prime number

Input

5

Output

5 is a prime number

Code:

```
// Day 20 coding Statement :
// Write a program to identify if the number is Prime number or nots

import java.util.Scanner;

public class Day_20 {
    public static void main(String[] args) {
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter A Number : ");
          int num=sc.nextInt();

          if(num==1)
          {
                  System.out.println(num+" is not a Prime number.");
```

```java
                return ;
        }
        else
        {
                boolean isArmstrong=true;
                for(int i =2;i<=num/2;i++)
                {
                        if(num%i==0)
                        {
                                isArmstrong=false;
                                break;
                        }

                }

                if(isArmstrong)
                {
                        System.out.println(num+" is an Prime number.");

                }else{
                        System.out.println(num+" is not a Prime number.");
                }

        }
    }
}
```

Output:

```
C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_20\Java>javac Day_20.java

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_20\Java>java Day_20
Enter A Number : 55
55 is not a Prime number.

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_20\Java>java Day_20
Enter A Number : 1
1 is not a Prime number.

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_20\Java>java Day_20
Enter A Number : 5
5 is an Prime number.

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_20\Java>java Day_20
Enter A Number : 2
2 is an Prime number.

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_20\Java>java Day_20
Enter A Number : 40
40 is not a Prime number.

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_20\Java>java Day_20
Enter A Number : 55
55 is not a Prime number.

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_20\Java>
```