

# Rajalakshmi Engineering College

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## 2024\_28\_III\_OOPS Using Java Lab

### 2028\_REC\_OOPS using Java\_Week 2\_Q2

Attempt : 1  
Total Mark : 10  
Marks Obtained : 10

#### **Section 1 : Coding**

##### **1. Problem Statement**

Samantha is a diligent math student who is exploring the world of programming. She is learning Java and has recently studied conditional statements. One day, her teacher gives her an interesting problem to solve, which takes a number as input and checks whether it is a multiple of 5 or 7.

Help her complete the task.

##### ***Input Format***

The input consists of a single integer N, representing the number to be checked.

##### ***Output Format***

If the number is a multiple of 5 but not 7, the output prints "N is a multiple of 5".

If the number is a multiple of 7, the output prints "N is a multiple of 7".

Otherwise the output prints "N is neither multiple of 5 nor 7" where N is an entered integer.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 10

Output: 10 is a multiple of 5

### **Answer**

```
import java.util.Scanner;

public class Main {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);

        // Read input number
        int N = sc.nextInt();

        // Check conditions
        if (N % 5 == 0 && N % 7 != 0) {
            System.out.println(N + " is a multiple of 5");
        } else if (N % 7 == 0) {
            System.out.println(N + " is a multiple of 7");
        } else {
            System.out.println(N + " is neither multiple of 5 nor 7");
        }

        sc.close();
    }
}
```

**Status : Correct**

**Marks : 10/10**