

# Rajalakshmi Engineering College

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Department: AI & ML - Section 4

Batch: 2028

Degree: B.E - AI & ML

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

### 2028\_REC\_OOPS using Java\_Week 1\_Q4

Attempt : 1

Total Mark : 10

Marks Obtained : 10

### Section 1 : Coding

#### 1. Problem Statement

Vishal and Arun are discussing the properties of numbers. Vishal gives Arun two integers. He asks Arun to check if the sum of these two numbers is a multiple of their product.

Can you assist Arun and determine whether the sum is a multiple of the product?

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

The input consists of two space-separated integers.

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

The output prints:

1. "Sum is Multiple of Product" if the sum of the two numbers is divisible by their product.
2. "Sum is Not Multiple of Product" otherwise.

Refer to the sample output for formatting specifications.

**Sample Test Case**

Input: 1 2

Output: Sum is Not Multiple of Product

**Answer**

```
// You are using Java
```

```
import java.util.Scanner;
```

```
public class Main {  
    public static void main(String[] args) {  
        Scanner scanner = new Scanner(System.in);  
        int num1 = scanner.nextInt();  
        int num2 = scanner.nextInt();  
  
        int sum = num1 + num2;  
        int product = num1 * num2;
```

```
        String result = (product == 0) ? ((sum == 0) ? "Sum is Multiple of Product" :  
        "Sum is Not Multiple of Product") : ((sum % product == 0) ? "Sum is Multiple of  
        Product" : "Sum is Not Multiple of Product");
```

```
        System.out.println(result);  
    }  
}
```

**Status :** Correct

**Marks :** 10/10