

# Rajalakshmi Engineering College

Name: NITHYASHREE K

Email: 240701369@rajalakshmi.edu.in

Roll no: 240701369

Phone: 9043544115

Branch: REC

Department: CSE - Section 5

Batch: 2028

Degree: B.E - CSE

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

### 2028\_REC\_OOPS using Java\_Week 3\_Q4

Attempt : 1

Total Mark : 10

Marks Obtained : 10

### Section 1 : Coding

#### 1. Problem Statement

Sesha is developing a weather monitoring system for a region with multiple weather stations. Each weather station collects temperature data hourly and stores it in a 2D array.

Write a program that can add the temperature data from two different weather stations to create a combined temperature record for the region.

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

The first line of input consists of two space-separated integers N and M, representing the number of rows and columns of the matrices, respectively.

The next N lines consist of M space-separated integers, representing the values of the first matrix.

The following N lines consist of M space-separated integers, representing the values of the second matrix.

### **Output Format**

The output prints the addition of the two matrices in N rows and M columns, representing the combined temperature record.

Refer to the sample output for formatting specifications.

### **Sample Test Case**

Input: 3 3

1 2 3

4 5 6

7 8 9

1 1 1

2 2 2

3 3 3

Output: 2 3 4

6 7 8

10 11 12

### **Answer**

```
// You are using Java
import java.util.Scanner;
public class Main{
    public static void main(String args[]){
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int m = sc.nextInt();
        int [][] a = new int[n][m];
        int [][] b = new int[n][m];
        for(int i =0;i<n;i++)
        {
            for(int j=0;j<m;j++)
            {
                a[i][j] = sc.nextInt();
            }
        }
        for(int i =0;i<n;i++)
```

```

    {
        for(int j=0;j<m;j++)
        {
            b[i][j] = sc.nextInt();
        }
    }
    int [][] sum = new int[n][m];
    for(int i =0;i<n;i++)
    {
        for(int j=0;j<m;j++)
        {

            sum[i][j]=a[i][j]+b[i][j];

        }
    }
    for(int i =0;i<n;i++)
    {
        for(int j=0;j<m;j++)
        {

            System.out.printf("%d ", sum[i][j]);

        }
        System.out.printf("\n");
    }
}
}

```

**Status :** Correct

**Marks :** 10/10