

# Rajalakshmi Engineering College

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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[][] matrix1 = new int[N][M];
        int[][] matrix2 = new int[N][M];
        int[][] result = new int[N][M];
        for (int i = 0; i < N; i++) {
            for (int j = 0; j < M; j++) {
                matrix1[i][j] = sc.nextInt();
            }
        }
        for (int i = 0; i < N; i++) {
            for (int j = 0; j < M; j++) {
```

```
        matrix2[i][j] = sc.nextInt();
    }
}
for (int i = 0; i < N; i++) {
    for (int j = 0; j < M; j++) {
        result[i][j] = matrix1[i][j] + matrix2[i][j];
    }
}
for (int i = 0; i < N; i++) {
    for (int j = 0; j < M; j++) {
        System.out.print(result[i][j] + " ");
    }
    System.out.println();
}
sc.close();
}
```

**Status :** Correct

**Marks :** 10/10