

# Rajalakshmi Engineering College

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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.*;
public class Main{
    public static void main(String[]args){
        Scanner sc=new Scanner(System.in);
        int a=sc.nextInt();
        int b=sc.nextInt();
        int[][] mat1=new int[a][b];
        int[][] mat2=new int[a][b];
        int[][] result=new int[a][b];
        for(int i=0;i<a;i++){
            for(int j=0;j<b;j++){
                mat1[i][j]=sc.nextInt();
            }
        }
        for(int i=0;i<a;i++){
            for(int j=0;j<b;j++){
```

```
        mat2[i][j]=sc.nextInt();
    }
}
for(int i=0;i<a;i++){
    for(int j=0;j<b;j++){
        result[i][j]=mat1[i][j]+mat2[i][j];
    }
}
for(int i=0;i<a;i++){
    for(int j=0;j<b;j++){
        System.out.print(result[i][j]+" ");
    }
    System.out.println();
}
```

**Status :** Correct

**Marks :** 10/10