

# 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***

```
import java.util.*;
class main{
    public static void main(String args[]){
        Scanner s=new Scanner(System.in);
        int a=s.nextInt(),b=s.nextInt();
        int[][] arr1=new int[a][b];
        int[][] arr2=new int[a][b];
        int[][] arr3=new int[a][b];
        for (int i=0;i<a;i++){
            for (int j=0;j<b;j++){
                arr1[i][j]=s.nextInt();
            }
        }
        for (int i=0;i<a;i++){
            for (int j=0;j<b;j++){
                arr2[i][j]=s.nextInt();
            }
        }
    }
}
```

```
for (int i=0;i<a;i++){
    for (int j=0;j<b;j++){
        arr3[i][j]=arr1[i][j]+arr2[i][j];
    }
    for(int i=0;i<a;i++){
        for(int j=0;j<b;j++){
            System.out.print(arr3[i][j]+" ");
        }
        System.out.println("");
    }
}
```

**Status : Correct**

**Marks : 10/10**