

# 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.\*;

class temp{

public static void main(String args[]){

Scanner obj=new Scanner(System.in);

int N=obj.nextInt();

int M=obj.nextInt();

int[][] result=new int[N][M];

int[][] arr1=new int[N][M];

for(int i=0;i<N;i++){

for(int j=0;j<M;j++){

arr1[i][j]=obj.nextInt();

}

}

int[][] arr2=new int[N][M];

for(int i=0;i<N;i++){

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        for(int j=0;j<M;j++){
            arr2[i][j]=obj.nextInt();
        }
    }
    for(int i=0;i<N;i++){
        for(int j=0;j<M;j++){
            result[i][j]=arr1[i][j]+arr2[i][j];
        }

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

**Status :** Correct

**Marks :** 10/10