

# Rajalakshmi Engineering College

Name: SAIPRASHANTH v  
Email: 240701457@rajalakshmi.edu.in  
Roll no: 240701457  
Phone: 7806969910  
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.io.*;
```

```
import java.util.*;
```

```
class Main
```

```
{
```

```
    public static void main(String args[])
```

```
    {
```

```
        Scanner sc=new Scanner(System.in);
```

```
        int n=sc.nextInt();
```

```
        int m=sc.nextInt();
```

```
        int[][] arr1=new int[n][m];
```

```
        int[][] arr2=new int[n][m];
```

```
        for(int i=0;i<n;i++)
```

```
        {
```

```
            for(int j=0;j<m;j++)
```

```
            {
```

```

        arr1[i][j]=sc.nextInt();
    }
}

for(int i=0;i<n;i++)
{
    for(int j=0;j<m;j++)
    {
        arr2[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]=arr1[i][j]+arr2[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