

# Rajalakshmi Engineering College

Name: Elamvazhuthi MS

Email: 240701133@rajalakshmi.edu.in

Roll no: 240701133

Phone: 7010282287

Branch: REC

Department: CSE - Section 4

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.*;
```

```
class d{
```

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

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

```
        int a=s.nextInt();
```

```
        int b=s.nextInt();
```

```
        int[][] mat=new int[a][b];
```

```
        int[][] bat=new int[a][b];
```

```
        int[][] sum=new int[a][b];
```

```
        int i,j;
```

```
        int summ;
```

```
        for(i=0;i<a;i++){
```

```
            for(j=0;j<b;j++){
```

```
                mat[i][j]=s.nextInt();
```

```
            }
```

```
        }
```

```
for(i=0;i<a;i++){
    for(j=0;j<b;j++){
        bat[i][j]=s.nextInt();
    }
}
for(i=0;i<a;i++){
    for(j=0;j<b;j++){
        summ=mat[i][j]+bat[i][j];
        sum[i][j]=summ;
    }
}
for(i=0;i<a;i++){
    for(j=0;j<b;j++){
        //mat[i][j]=s.nextInt();
        System.out.printf("%d",sum[i][j]);
    }
}
}
```

**Status :** Correct

**Marks : 10/10**