

# Rajalakshmi Engineering College

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Scan to verify results



## 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.Scanner;
```

```
class Main
```

```
{
```

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

```
    {
```

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

```
        int r = scan.nextInt();
```

```
        int c = scan.nextInt();
```

```
        int[][] a1 = new int[r][c];
```

```
        int[][] a2 = new int[r][c];
```

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

```
        {
```

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

```
            {
```

```
                a1[i][j] = scan.nextInt();
```

```
            }
```

```
        }
```

```

    }
    for(int i=0;i<r;i++)
    {
        for(int j=0;j<c;j++)
        {
            a2[i][j] = scan.nextInt();
        }
    }
    int[][] a3 = new int[r][c];
    for(int i=0;i<r;i++)
    {
        for(int j=0;j<c;j++)
        {
            a3[i][j] = a1[i][j] + a2[i][j];
        }
    }
    for(int i=0;i<r;i++)
    {
        for(int j=0;j<c;j++)
        {
            System.out.print(a3[i][j] + " ");
        }
        System.out.println();
    }
}
}

```

**Status :** Correct

**Marks :** 10/10