

# 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.*;
public class Main{
    public static void main(String[] args){
        Scanner ip=new Scanner(System.in);
        int r=ip.nextInt();
        int c=ip.nextInt();
        int arr1[][]=new int[r][c];
        int arr2[][]=new int[r][c];
        for(int i=0;i<r;i++){
            for(int j=0;j<c;j++){
                arr1[i][j]=ip.nextInt();
            }
            System.out.println();
        }
        for(int i=0;i<r;i++){
            for(int j=0;j<c;j++){
                arr2[i][j]=ip.nextInt();
            }
        }
        for(int i=0;i<r;i++){
            for(int j=0;j<c;j++){
                System.out.print(arr1[i][j]+arr2[i][j]);
                if(j==c-1)
                    System.out.println();
                else
                    System.out.print(" ");
            }
        }
    }
}
```

```
        }
        System.out.println();
    }
int res[][]=new int[r][c];
for(int i=0;i<r;i++){
    for(int j=0;j<c;j++){
        res[i][j]=arr1[i][j]+arr2[i][j];
    }
}
for(int i=0;i<r;i++){
    for(int j=0;j<c;j++){
        System.out.print(res[i][j]+" ");
    }
    System.out.println();
}
}
}
```

**Status :** Correct

**Marks :** 10/10