# 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.*;
class main{
    public static void main(String[]args){
        Scanner n=new Scanner(System.in);
        int r=n.nextInt();
        int c=n.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++){
                int ele=n.nextInt();
                arr1[i][j]=ele;
            }
        }
        for(int i=0; i<r; i++){
            for(int j=0; j<c; j++){
                int ele=n.nextInt();
```

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

***Status :*** Correct **Marks : 10/10**