

Rajalakshmi Engineering College

Name: VISHVA RAGAVAN P
Email: 241501249@rajalakshmi.edu.in
Roll no: 241501249
Phone: 6381117385
Branch: REC
Department: AI & ML - Section 4
Batch: 2028
Degree: B.E - AI & ML

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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.Scanner;
```

```
class java{
```

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

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

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

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

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

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

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

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

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

```
                a[i][j]=val;
```

```
            }
```

```
        }
```

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

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

```
        int val=s.nextInt();
        b[i][j]=val;
    }
}
int res[][]= new int[n][m];
for(int i=0;i<n;i++){
    for(int j=0;j<m;j++){
        int val=(a[i][j]+b[i][j]);
        res[i][j]=val;
    }
}
for(int i=0;i<n;i++){
    for(int j=0;j<m;j++){
        System.out.print(res[i][j]+" ");
    }
    System.out.println("");
}
}
```

Status : Correct

Marks : 10/10