

Rajalakshmi Engineering College

Name: Sam Devaraja J
Email: 240701463@rajalakshmi.edu.in
Roll no: 2116240701463
Phone: 7395954829
Branch: REC
Department: CSE - Section 5
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 Main{

public static void main(String[] args){

Scanner sc=new Scanner(System.in);

int n=sc.nextInt(),m=sc.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++)

a[i][j]=sc.nextInt();

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

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

b[i][j]=sc.nextInt();

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

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

System.out.print((a[i][j]+b[i][j])+" ");

```
System.out.println();
```

```
}  
}  
}
```

Status : Correct

Marks : 10/10