

Rajalakshmi Engineering College

Name: Kirithick R
Email: 240701627@rajalakshmi.edu.in
Roll no: 2116240701627
Phone: 9952595005
Branch: REC
Department: CSE - Section 6
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

```
import java.util.*;
class MatrixAddition{
    public static void main(String args[]){
        Scanner sc=new Scanner(System.in);
        int N=sc.nextInt();
        int M=sc.nextInt();
        int[][] Arr1=new int[N][M];
        for(int i=0;i<N;i++){
            for(int j=0;j<M;j++){
                Arr1[i][j]=sc.nextInt();
            }
        }
        int[][] Arr2=new int[N][M];
        for(int i=0;i<N;i++){
            for(int j=0;j<M;j++){
                Arr2[i][j]=sc.nextInt();
            }
        }
```

```
    }
    int[][] Arr3=new int[N][M];
    for(int i=0;i<N;i++){
        for(int j=0;j<M;j++){
            Arr3[i][j]=Arr1[i][j]+Arr2[i][j];
            System.out.print(Arr3[i][j]+" ");
        }
        System.out.println();
    }
}
```

Status : Correct

Marks : 10/10