

Rajalakshmi Engineering College

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Department: AI & DS - Section 3

Batch: 2028

Degree: B.E - AI & DS

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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.*;
public class Main
{
    public static void main (String [] args)
    {
        Scanner read = new Scanner (System.in);
        int n = read.nextInt();
        int n2 = read.nextInt();
        int [][] arr = new int [n][n2];
        int [][] arr2 = new int [n][n2];
        for (int i = 0 ;i < n;i++)
        {
            for (int j = 0 ;j < n2;j++)
            {
                arr[i][j] = read.nextInt();
            }
        }
    }
}
```

```
        }
        for (int i = 0 ;i < n;i++)
        {
            for (int j = 0 ;j < n2;j++)
            {
                arr2[i][j] = read.nextInt();
            }
        }
        int[][] sum= new int [n][n2];
        for (int i = 0 ;i < n;i++)
        {
            for (int j = 0 ;j < n2;j++)
            {
                sum[i][j] = arr[i][j] + arr2[i][j] ;
            }
        }
        for (int i = 0 ;i < n;i++)
        {
            for (int j = 0 ;j < n2;j++)
            {
                System.out.printf("%d ",sum[i][j]);
            }System.out.printf("\n");
        }
    }
}
```

Status : Correct

Marks : 10/10