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.Scanner;
public class Main{
   public static void main(String [] args){
      Scanner n=new Scanner(System.in);
      int n1=n.nextInt();
      int n2=n.nextInt();
      int arr1[][]=new int[n1][n2];
      int arr2[][]=new int[n1][n2];
      int arr[][]=new int[n1][n2];
      for(int i=0;i<n1;i++){
         for(int j=0;j<n2;j++){
            arr1[i][j]=n.nextInt();
         }
      }
       for(int i=0;i<n1;i++){
          for(int j=0;j<n2;j++){
             arr2[i][j]=n.nextInt();
```

```
            }
        }
        for(int i=0;i<n1;i++){
            for(int j=0;j<n2;j++){
                arr[i][j]=arr1[i][j]+arr2[i][j];
            }
        }
        for(int i=0;i<n1;i++){
            for(int j=0;j<n2;j++){
                System.out.print(arr[i][j] +" ");
            }
            System.out.println();
        }


    }
}
```

Status : Correct   *Marks : 10/10*