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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.Arrays;
import java.util.Scanner;

class Main{
   public static void main(String args[]){
      Scanner sc = new Scanner(System.in);
      int n = sc.nextInt();
      int m = sc.nextInt();
      int[][] mat1=new int[n][m];
      int[][] mat2=new int [n][m];
      for(int i=0;i<n;i++){
         for(int j=0;j<m;j++){
            mat1[i][j]=sc.nextInt();
         }
      }
      for(int i=0;i<n;i++){
         for(int j=0;j<m;j++){
```

```
            mat2[i][j]=sc.nextInt();
        }
    }
    for(int i=0;i<n;i++){
        for(int j=0;j<m;j++){
            mat1[i][j]+=mat2[i][j];
            System.out.printf("%d ",mat1[i][j]);
        }
        System.out.println();
    }

  }
}
```

Status : Correct *Marks : 10/10*