

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

// You are using Java

import java.util.Scanner;

```
public class Main {  
    public static void main(String[] args) {  
        Scanner sc = new Scanner(System.in);
```

```
        int N = sc.nextInt();
```

```
        int M = sc.nextInt();
```

```
        int[][] matrix1 = new int[N][M];
```

```
        int[][] matrix2 = new int[N][M];
```

```
        int[][] result = new int[N][M];
```

```
        for (int i = 0; i < N; i++) {  
            for (int j = 0; j < M; j++) {  
                matrix1[i][j] = sc.nextInt();
```

```
    }  
  }  
  for (int i = 0; i < N; i++) {  
    for (int j = 0; j < M; j++) {  
      matrix2[i][j] = sc.nextInt();  
    }  
  }  
  for (int i = 0; i < N; i++) {  
    for (int j = 0; j < M; j++) {  
      result[i][j] = matrix1[i][j] + matrix2[i][j];  
    }  
  }  
  for (int i = 0; i < N; i++) {  
    for (int j = 0; j < M; j++) {  
      System.out.print(result[i][j]);  
      if (j != M - 1) System.out.print(" ");  
    }  
    System.out.println();  
  }  
  sc.close();  
}
```

Status : Correct

Marks : 10/10