**Name: VYSHNAV SURESH**

**Roll No:56**

**Batch:MCA-B**

**Date:31-05-2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 2**

**Aim**

Read 2 matrices from the console and perform matrix addition.

**Procedure**

import java.util.\*;

import java.io.\*;

class mat {

int p, q, m, n, i, j;

public void readmat() {

Scanner in = new Scanner(System.in);

System.out.println("enter the row of first matrix");

m = in.nextInt();

System.out.println("enter the column of matrix");

n = in.nextInt();

int a[][] = new int[m][n];

System.out.println("enter the elements of first matrix");

for (i = 0; i < m; i++) {

for (j = 0; j < n; j++) {

a[i][j] = in.nextInt();

}

}

System.out.println("enter the row of second matrix");

p = in.nextInt();

System.out.println("enter the column of matrix");

q = in.nextInt();

System.out.println("enter the elements of second matrix");

int b[][] = new int[p][q];

for (i = 0; i < p; i++) {

for (j = 0; j < q; j++) {

b[i][j] = in.nextInt();

}

}

int sum[][] = new int[m][n];

for (i = 0; i < m; i++) {

for (j = 0; j < n; j++) {

sum[i][j] = a[i][j] + b[i][j];

}

}

System.out.println("Sum of the matrices are=");

for (i = 0; i < m; i++) {

for (j = 0; j < n; j++) {

System.out.print(sum[i][j] + " ");

}

System.out.println(" ");

}

}

}

public class C012 {

public static void main(String[] args) {

mat m = new mat();

m.readmat();

}

**}**

**Output Screenshot**

