**Name: jobin t j**

**Roll No:7**

**Batch:MCA-B**

**Date:06-04-2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 2**

**Aim**

Read to matrix from the console and perform matrix addition

**Procedure**

import java.util.Scanner;

public class matrixAddition {

public static void main(String[] args) {

int[][] mat1=new int[5][5];

int[][] mat2=new int[5][5];

int[][] mat3=new int[5][5];

int rows1, cols1, rows2, cols2;

Scanner s=new Scanner(System.in);

System.out.println("Enter the number of rows and columns of matrix 1");

rows1=s.nextInt();

cols1=s.nextInt();

System.out.println("Enter the elements of matrix 1");

for(int i=0;i<rows1;i++)

{

for(int j=0;j<cols1;j++)

{

mat1[i][j]=s.nextInt();

}

}

System.out.println("Enter the number of rows and columns of matrix 2");

rows2=s.nextInt();

cols2=s.nextInt();

System.out.println("Enter the elements of matrix 2");

for(int i=0;i<rows2;i++)

{

for(int j=0;j<cols2;j++)

{

mat2[i][j]=s.nextInt();

}

}

if(rows1==rows2 && cols1==cols2)

{

for(int i=0;i<rows1;i++)

{

for(int j=0;j<cols1;j++)

{

mat3[i][j]=mat1[i][j]+mat2[i][j];

}

}

System.out.println("The sum of the two matrices is");

for(int i=0;i<rows1;i++)

{

for(int j=0;j<cols1;j++)

{

System.out.print(mat3[i][j]+"\t");

}

System.out.println();

}

}

else

{

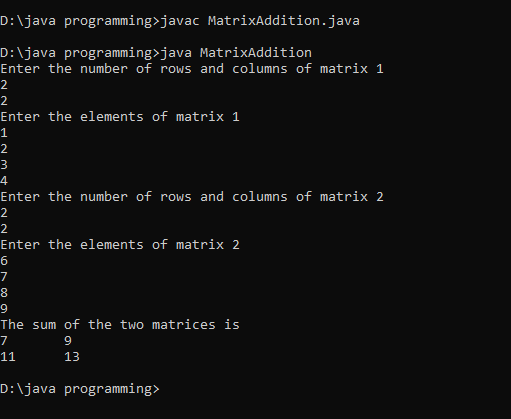
System.out.println("The matrices cannot be added");

}

}

}

**Output Screenshot**

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