OBJECT ORIENTED PROGRAMMING LAB

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**Roll No:50**

**Batch:B**

**Date:06-04-22**

**Experiment No.: 2**

**Aim**

To add two matrices

**Procedure**

import java.util.Scanner;

public class MatrixAddition

{

public static void main(String args[])

{

int m,n,i,j;

Scanner sc=new Scanner(System.in);

System.out.println("\n Enter the order of the matrices\n");

m=sc.nextInt();

n=sc.nextInt();

int[][] mat1=new int[m][n];

int[][] mat2=new int[m][n];

int[][] mat3=new int[m][n];

System.out.println("\n Enter "+(m\*n)+" elements into the first matrix: ");

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

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

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

System.out.println("\n Enter "+(m\*n)+" elements into the second matrix: ");

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

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

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

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

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

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

System.out.println("\n The entered matrices are\n");

System.out.println("\n The matrix 1 is\n");

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

{

System.out.println("\n");

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

System.out.print(mat1[i][j]+"\t");

}

System.out.println("\n The matrix 2 is\n");

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

{

System.out.println("\n");

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

System.out.print(mat2[i][j]+"\t");

}

System.out.println("\n After matrix Addition, the resultant matrix is\n ");

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

{

System.out.println("\n");

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

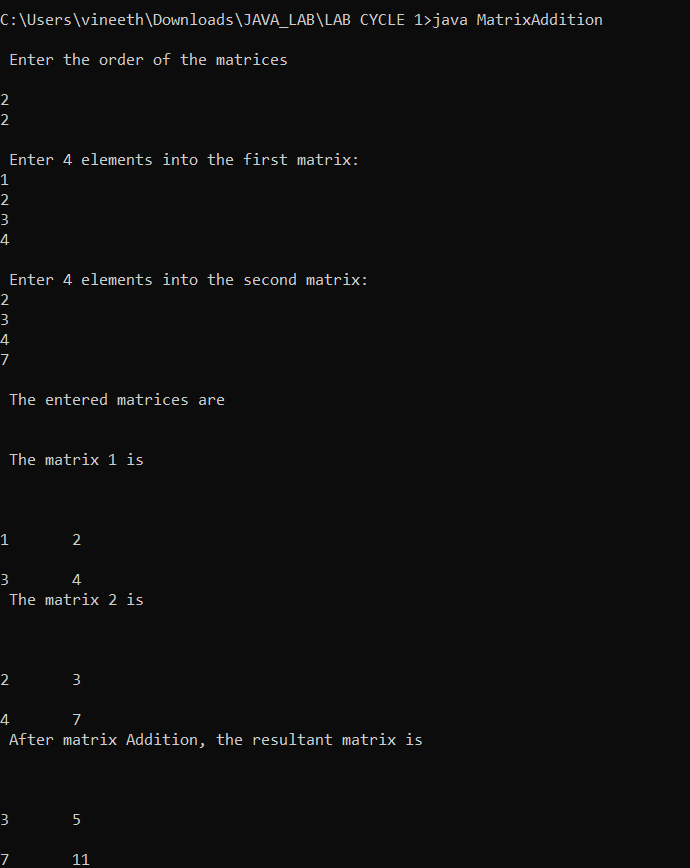
System.out.print(mat3[i][j]+"\t");

}

}

}

**Output Screenshot**

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