**Name: YedhuKrishnan KJ**

**Roll No:57**

**Batch:MCA B**

**Date:**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 2**

**Aim**

To add two complex numbers

**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 two matrix\n");

m=sc.nextInt();

n=sc.nextInt();

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

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

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

System.out.println("\n Enter elements of the first matrix: ");

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

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

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

System.out.println("\n Enter elements of the second matrix: ");

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

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

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

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

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

c[i][j]=a[i][j]+b[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(a[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(b[i][j]+"\t");

}

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

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

{

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

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

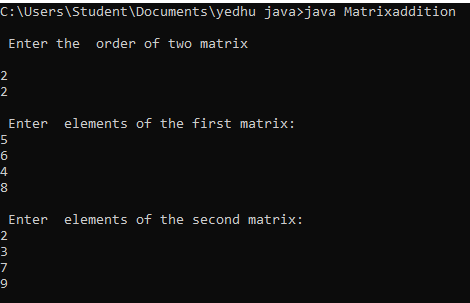
System.out.print(c[i][j]+"\t");

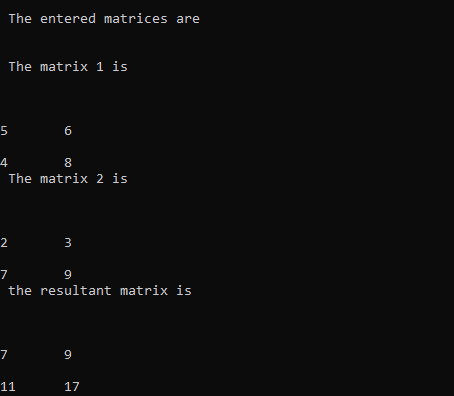
}

}

}

**Output Screenshot**



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