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**Subject: FJP**

**Title : Addition of two Matrices.**

**Write a program in JAVA to add two matrices.**

**Code :**

package Exp\_6;

import java.util.Scanner;

public class MartixAddition{

public static void main(String[] args){

int m1 [][] =new int [2][2];

int m2 [][] =new int [2][2];

int m3 [][] =new int [2][2];

Scanner sc =new Scanner (System.in);

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

for(int i =0;i<2;i++){

for(int j=0;j<2;j++){

m1[i][j]=sc.nextInt();

}

}

System.out.println("The first matrix is");

for(int i =0;j<2;j++){

System.out.print(m1[i][j]+"");

}

System.out.println();

}

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

for(int i =0;i<2;i++){

for(int j=0;j<2;j++){

m2[i][j]=sc.nextInt();

}

}

System.out.println("The second matrix is");

for(int i =0;i<2;i++){

for(int j=0;j<2;j++){

Syytem.out.print(m2[i][j]+"");

}

System.out.println();

}

System.out.println("The Addition of matrix is:");

for(int i=0;i<2;i++){

for(int j=0;j<2;j++){

m3[i][j]=m1[i][j]+m2[i][j];

System.out.print(m3[i][j]+"");

}

System.out.println();

}

}

**Output :**

Enter the element of first matrix:

10

20

30

40

The first matrix is

10 20

30 40

Enter the element of second matrix:

1

2

3

4

The second matrix is

1 2

3 4

The Addition of matrix is:

11 12

33 44