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**Batch:MCA-B**

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**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.println(sum[i][j]);

}

}

}

}

public class Matrix

{

public static void main(String[] args)

{

mat m=new mat();

m.readmat();

}

}

**Output Screenshot**

