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**Roll No:52**

**Batch:B**

**Date:05-04-22**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 2**

**Aim:**

Read 2 matrices from the console and perform matrix addition.

**Program:**

import java.util.Scanner;

public class MatrixAddition

{

public static void main(String args[])

{

int row,col,i,j;

Scanner m = new Scanner(System.in);

System.out.println(“Enter the number of rows”);

row = m.nextInt();

System.out.println(“Enter the number of columns”);

col = m.nextInt();

int mat1[][] = new int [row][col];

int mat2[][] = new int [row][col];

int sum[][] = new int [row][col];

System.out.println(“Enter the elements in matrix1:”);

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

{

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

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

System.out.println(“\n”);

}

System.out.println(“Enter the elements in matrix2”);

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

{

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

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

System.out.println(“\n”);

}

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

{

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

{

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

System.out.println(“sum of matrices given:);

}

}

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

{

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

{

System.out.print(sum[i][j]+”\t”);

}

System.out.println(“\n”);

}

}

}

**OUTPUT:**

