**Name: Varsha JJ**

**Roll No: 48**

**Batch: B**

**Date: 29/03/2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 2**

**Aim**

To read 2 matrices from the console and perform matrix addition.

**Code**

import java.util.\*;

class MatrixAddition{

public static void main(String args[]){

int row, col;

Scanner sc= new Scanner(System.in);

System.out.print("Enter the number of rows : ");

row= sc.nextInt();

System.out.print("Enter the number of columns : ");

col= sc.nextInt();

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

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

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

System.out.println("Enter the elements into Matrix A : ");

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

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

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

}

}

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

System.out.println("Enter the elements into Matrix B : ");

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

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

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

}

}

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

System.out.println("Matrix A is : ");

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

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

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

}

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

}

System.out.println("Matrix B is : ");

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

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

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

}

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

}

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

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

matC[i][j]= matA[i][j] + matB[i][j];

}

}

System.out.println("Matrix sum is : ");

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

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

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

}

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

}

}

}

**Output Screenshot**

