

OBJECT ORIENTED PROGRAMMING LAB**Experiment No.: 2****Aim**

Read 2 matrices from the console and perform matrix addition.

Procedure

```
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");
        }

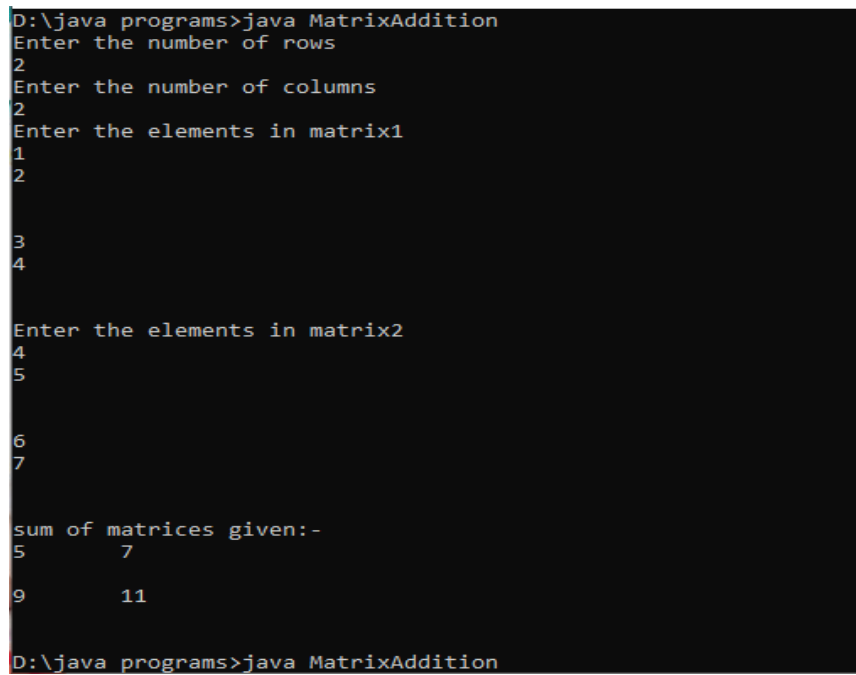
        for(i=0; i<row; i++)
            for(j=0; j<col; j++)
                sum[i][j] = mat1[i][j] + mat2[i][j];
        System.out.println("sum of matrices given:-");

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

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```
        for(j=0; j<col; j++)  
        {  
            System.out.print(sum[i][j]+" ");  
        }  
        System.out.println("\n");  
    }  
}
```

Output Screenshot



The screenshot shows a command prompt window with the following text:

```
D:\java programs>java MatrixAddition  
Enter the number of rows  
2  
Enter the number of columns  
2  
Enter the elements in matrix1  
1  
2  
  
3  
4  
  
Enter the elements in matrix2  
4  
5  
  
6  
7  
  
sum of matrices given:-  
5      7  
9      11  
  
D:\java programs>java MatrixAddition
```