

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

Read 2 matrices from the console and perform matrix addition.

Procedure

```
import java.util.*;

class AddMatrix
{
    public static void main(String args[])
    {
        int row, col,i,j;
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the number of rows");
        row = in.nextInt();
        System.out.println("Enter the number columns");
        col = in.nextInt();
        int mat1[][] = new int[row][col];
        int mat2[][] = new int[row][col];
        int res[][] = new int[row][col];
        System.out.println("Enter the elements of matrix1");
        for ( i= 0 ; i < row ; i++ )
        {
            for ( j= 0 ; j < col ;j++ )
                mat1[i][j] = in.nextInt();
        }
    }
}
```

Name: Shefany Shanavas**Roll No:37****Batch: MCA-B****Date:06/04/2022**

```
System.out.println("Enter the elements of matrix2");  
for ( i= 0 ; i < row ; i++ )  
{  
    for ( j= 0 ; j < col ;j++ )  
        mat2[i][j] = in.nextInt();  
}  
for ( i= 0 ; i < row ; i++ )  
    for ( j= 0 ; j < col ;j++ )  
        res[i][j] = mat1[i][j] + mat2[i][j] ;  
System.out.println("Sum of matrices:-");  
for ( i= 0 ; i < row ; i++ )  
{  
    for ( j= 0 ; j < col ;j++ )  
        System.out.print(res[i][j]+"\\t");  
    System.out.println();  
}  
}  
}
```

Output Screenshot:

```
Microsoft Windows [Version 10.0.19041.1]
(c) 2019 Microsoft Corporation. All rights reserved.

D:\java\6-04-2022>javac MatrixAddition.java

D:\java\6-04-2022>java MatrixAddition
Enter the number of rows
3
Enter the number columns
3
Enter the elements of matrix1
2 4 6
3 6 9
1 3 5
Enter the elements of matrix2
1 3 4
2 4 6
3 6 9
Sum of matrices:-
3      7      10
5      10     15
4      9      14

D:\java\6-04-2022>
```