

OBJECT ORIENTED PROGRAMMING LAB

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Batch: B

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Experiment No.: 2

Aim

Read 2 matrices from the console and perform matrix addition.

Procedure

```
import java.util.Scanner;

class MatrixAdd{

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 matrix 1");
```

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

    for ( j= 0 ; j < col ;j++ )
        mat1[i][j] = in.nextInt();

    System.out.println();
}

System.out.println("Enter the elements of matrix 2");

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

    for ( j= 0 ; j < col ;j++ )
        mat2[i][j] = in.nextInt();

    System.out.println();
}

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 is :");

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

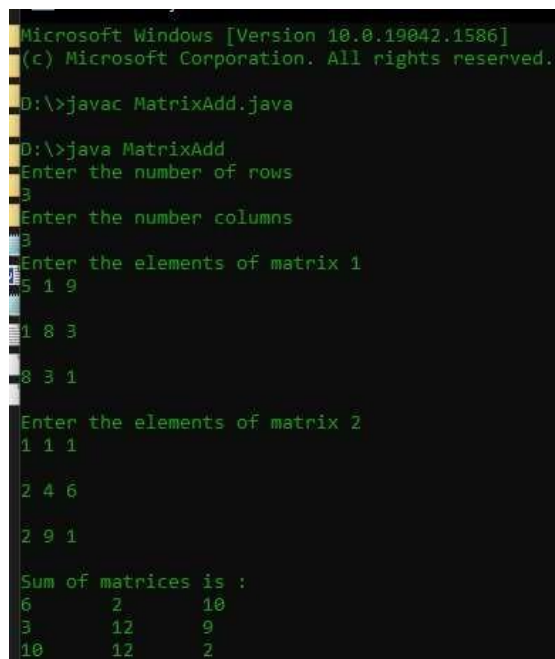
    for ( j= 0 ; j < col ;j++ )
        System.out.print(res[i][j]+"\\t");
```

```
        System.out.println();  
    }  
  
}
```

```
}
```

```
}
```

Output Screenshot



```
Microsoft Windows [Version 10.0.19042.1586]  
(c) Microsoft Corporation. All rights reserved.  
  
D:\>javac MatrixAdd.java  
  
D:\>java MatrixAdd  
Enter the number of rows  
3  
Enter the number columns  
3  
Enter the elements of matrix 1  
5 1 9  
1 8 3  
8 3 1  
  
Enter the elements of matrix 2  
1 1 1  
2 4 6  
2 9 1  
  
Sum of matrices is :  
6      2      10  
3      12      9  
10     12      2
```