

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

Read 2 matrices from the console and perform matrix addition.

Procedure

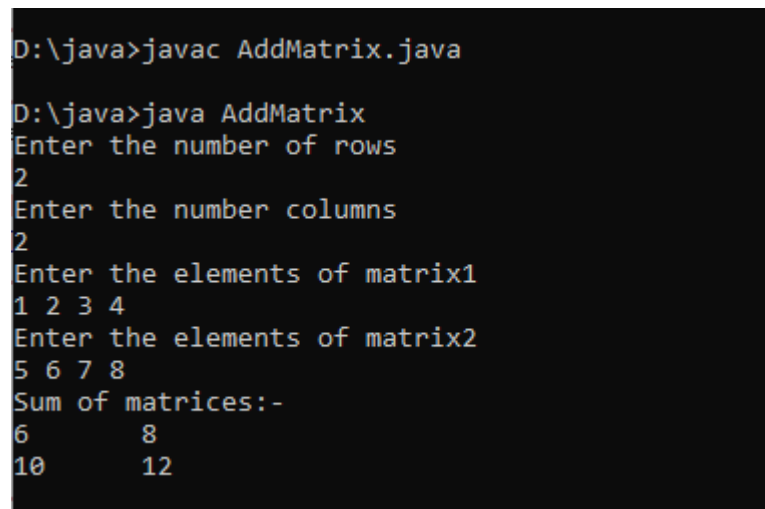
```
import java.util.*;

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();
        }
    }
}
```

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```
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



```
D:\java>javac AddMatrix.java
D:\java>java AddMatrix
Enter the number of rows
2
Enter the number columns
2
Enter the elements of matrix1
1 2 3 4
Enter the elements of matrix2
5 6 7 8
Sum of matrices:-
6      8
10     12
```