

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

Read 2 matrices from the console and perform matrix addition.

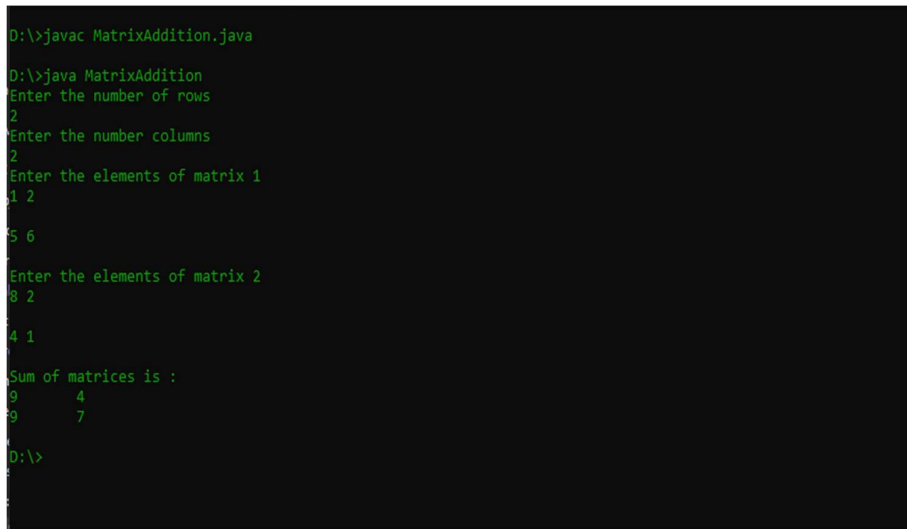
Name: VYSHNAVI BABU S**Roll No: 55****Batch: B****Date:06/04/2022****Procedure**

```
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();
}
}
```

```
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



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

```
D:\>javac MatrixAddition.java
D:\>java MatrixAddition
Enter the number of rows
2
Enter the number columns
2
Enter the elements of matrix 1
1 2
5 6
Enter the elements of matrix 2
8 2
4 1
Sum of matrices is :
9 4
9 7
D:\>
```