OBJECT ORIENTED PROGRAMMING LAB

Name: Mathew Sebastian

Roll No: 18

Batch: B

Date: 6/04/22

Experiment No.: 2

Aim

Read 2 matrices from the console and perform matrix addition.

Procedure

```
import java.util.Scanner;
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();
}
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();

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:-");

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
3
Enter the number columns
3
Enter the elements of matrix1
1 2 4

1 4 5

1 6 7

Enter the elements of matrix2
5 7 8

2 6 8

5 6 7

Sum of matrices:-
6       9       12
3       10      13
6       12      14

D:\java>
```