OBJECT ORIENTED PROGRAMMING LAB

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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();
}
```

```
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

```
C:\Users\Student\Desktop>javac AddMatrix.java

C:\Users\Student\Desktop>java AddMatrix
Enter the number of rows
2
Enter the number columns
2
Enter the elements of matrix1
1
2
2
2
Enter the elements of matrix2
3
3
3
4
Sum of matrices:-
4       5
5       6
```