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