OBJECT ORIENTED PROGRAMMING LAB

Experiment No.: 4

Name: Mathew Sebastian

Roll No: 18

Batch: B

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<u>Aim</u>

Read a matrix from the console and check whether it is symmetric or not.

Procedure

```
import java.util.Scanner;
public class SymmetricMatrix
  public static void main(String[] args)
     Scanner sc = new Scanner(System.in);
     System.out.println("Enter the numb of rows: ");
     int rows = sc.nextInt();
     System.out.println("Enter the numb of columns: ");
     int cols = sc.nextInt();
     int matrix[][] = new int[rows][cols];
     System.out.println("Enter the elements:");
     for (int i = 0; i < rows; i++)
       for (int j = 0; j < cols; j++)
          matrix[i][j] = sc.nextInt();
     }
     System.out.println("Printing the input matrix:");
     for (int i = 0; i < rows; i++)
       for (int j = 0; j < cols; j++)
```

sc.close();

Output Screenshot

```
Microsoft Windows [Version 10.0.19044.1586]
(c) Microsoft Corporation. All rights reserved.

D:\java>javac SymmetricMatrix.java

D:\java>java SymmetricMatrix
Enter the numb of rows:

2
Enter the numb of columns:
2
Enter the elements:
1 3
3 1
Printing the input matrix:
1 3
3 1
The matrix is symmetric...

D:\java>_
```