**Name: NEHA ANTONY**

**Roll No:23**

**Batch:MCA-B**

**Date:06-04-2022**

**OBJECT ORIENTED PROGRAMMING LAB**

**Experiment No.: 4**

**Aim**

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

**Procedure**

import java.util.Scanner;

public class symMatrix{

public static void main(String args[]){

Scanner sc = new Scanner(System.in);

System.out.print("Enter the size of Row \t: ");

int row = sc.nextInt();

System.out.print("Enter the size of Cols \t: ");

int col = sc.nextInt();

int[][] a = new int[row][col];

boolean yes = true;

int i, j;

if(row == col){

for(i=0; i<row; i++){

for(j=0; j<col; j++){

System.out.print("Enter ("+i+","+j+")th Value \t: ");

a[i][j] = sc.nextInt();

}

}

System.out.println("\nMatrix A :");

for(i=0; i<row; i++){

for(j=0; j<col; j++){

System.out.print(a[i][j]+"\t");

}System.out.println("\n");

}

for(i=0; i<row; i++){

for(j=0; j<col; j++){

if(a[i][j] != a[j][i]){

yes = false;

}

}

}

if(yes){

System.out.println("The Matrix is Symmetric\n");

}

else

System.out.println("The Matrix is NOT Symmetric\n");

}

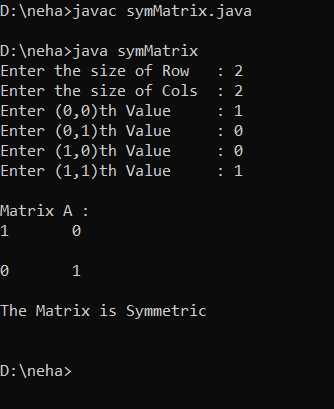
else

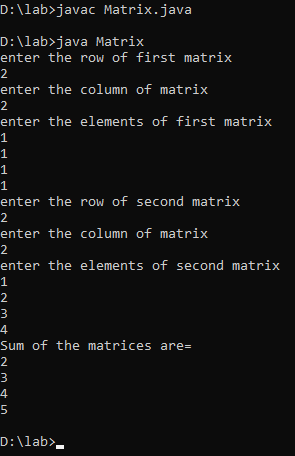
System.out.println("The Rows and Columns are NOT equal.");

}

}

**Output Screenshot**

****

****