Co1-4

```
import java.util.Scanner;
class Matrix{
  int order;
    int[][] matrix;
  Matrix(int order)
  this.order = order;
  matrix = new int[order][order];
  void MatrixCreation(Scanner read)
  System.out.println("Enter the elements in
"+ order+"x"+order+" matrix:");
  for(int i=0; i<order; i++)
      for (int j=0; j<order; j++)
       {
         matrix[i][j] = read.nextInt();
void isSymmetricMatrix()
for(int i=0; i<order; i++)
```

```
void isSymmetricMatrix()
for(int i=0; i<order; i++)
{
for (int j=0; j<order; j++)
{
if (matrix[i][j] != matrix[j][i])
{
System.out.println("Given matrix is not a
symmetric metrix");
return;
System.out.println("Given metrix is a
symmetric metrix");
```

```
System.out.println("Given metrix is a
symmetric metrix");
 }
public class SymmetricMatrix {
public static void main(String[] arg) {
int order;
Scanner read = new Scanner(System.in);
System.out.print("Enter the order of sqare
metrix:");
order = read.nextInt();
Matrix m = new Matrix(order);
m.MatrixCreation(read);
m.isSymmetricMatrix();
```

Output:-

Enter the order of square metrix:2 Enter the elements in 2x2 matrix:

36

62

Given metrix is a symmetric metrix