```
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++)
       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");
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 sqare metrix: 2

Enter the elements in 2x2 matrix:

2 4

4 1

Given metrix is a symmetric metrix