SCREENSHOTS FOR SOURCE CODE:

1. Symmetric data as input with 9 as dimension.

```
C:\Users\user\Documents\Java Programs>javac TSP.java
C:\Users\user\Documents\Java Programs>javac TSP.java
C:\Users\user\Documents\Java Programs>java TSP
Please enter the type of Data (symetric or asymetric, all lowercase)
symetric
Please enter the name of file
tspex.tsp
45.25481
```

2. Symmetric data as input with 5 as dimension.

```
C:\Users\user\Documents\Java Programs>java TSP
Please enter the type of Data (symetric or asymetric, all lowercase)
symetric
Please enter the name of file
newdj5.txt
1718.3874099999998
```

3. Asymmetric data as input with 4 as dimension.

```
C:\Users\user\Documents\Java Programs>javac TSP.java
C:\Users\user\Documents\Java Programs>java TSP
Please enter the type of Data (symetric or asymetric, all lowercase)
asymetric
Please enter the name of file
kfc.tat
80
```

UML DIAGRAM:

TSP K:int Str : int [] Dim_mat : double[][] X: String[] Y: string[] Dis:int[][] Type_of_data: String Data1: String Data2 : String Text : String S: String Dimension: String[] Mat : String[] Xlist : ArrayList Ylist : ArrayList array_of_strings = String[] intdimension: int xp : double yp:double v : Boolean[] ans : double insize : int count: int cost:int cost1 : double symmetric_data : void asymetric_data: void tspasy:int tsp:double isNumeric : Boolean main: void

CONCLUSION:

My source code runs only up to finding the minimum cost for the traversing. I have used single class with needed functions for program, so UML diagram consists of only one class with attributes. I couldn't make it out till GUI. And the program takes time to show the output for larger datasets as input.