CMPE 261 - OOP and Concurrent Programming

Assignment-08

Worth 25% of the assignment mark!

Deadline: 09:00, May 09

In your assignment,explain your codes with *comments*. Without *comments*, your assignment will not be marked.

Problem

Write a simple GUI program that reads data from two different files and display them in a table. The format of the first file is:

```
Name LastName Gender  Id

Ali    Ahmet    Male    12345678
Fatma  Orhan    Female  22334488
```

The format of the second file is:

```
Id          Q1     Q2
12345678    60     100
22334488    90     80
```

Please use the **JTable** and **JScrollPane** classes to display data in your GUI project. When you execute your program your table should display following data:

```
Id        Name    LastName   Gender  Q1  Q2   Average
12345678  Ali     Ahmet      Male    60  100  ---
22334488  Fatma   Orhan      Female  90  80   ---
```

- Your program should create data such as, ID (8 digits), Name, Last names (between 5 and 10 characters), gender, quiz (between 0 and 100).

- There are some buttons (Load Data, Calculate, Sort, Exit), radio buttons(rdIncrease, rdDecrease), and check Boxes (chQuizOne, chQuizTwo, chAll). Add these items using appropriate layout managers.

- When the **Load Data** button is clicked, all data should uploaded into the JTable.

- The average is calculated when the **Calculate** button is clicked.

- To sort the table, one of the radio buttons (increasing or decreasing) must be selected. Then the program sorts the data according average of each row.

- With the check boxes, which assessment is going to be calculated is decided. By default, the "checkAll" box is selected.

- Your program must be stable. For example, before going to calculate, data must be loaded into the table. Before going to sort, the averages must be calculated.