**You are to work independently but are encouraged to ask others for help if you need to but YOU need to write the code and understand it**

1. Create a Java project in Eclipse called **HW\_02-FileIO-OOP**
2. Add a class to your project called Tester
3. Download the text document (HW-02\_Student-Average-Gender.txt) from the HandoutFiles in our Canvas course files and place it in your root folder of the project
4. Examine the text documents to determine how you may go about creating a class to represent one single row of data.
5. Add a class to your project that represents the data you want to save. It should map to 1 row. Add private properties, public getters and setters that include good checks on the data being assigned. Section off your code like we did in class with a comment line to show the different sections. Note: you will probably not need any other methods in your class other than getters and setters.
6. In your Tester’s main() method:
   1. Create the code that will import all data from the text file using the **RandomAccessFile** class and map each row to an object of your class and save each object to an ArrayList.
   2. Once all your data has been loaded into objects and stored in your ArrayList you are to loop through the data and calculate and print the following (**note: then numbers are all made up**)

**Grade Men Women**

**------ --- -----**

**A 22 405**

**B 3 90**

**C 100 145**

**D 300 20**

**F 64 5**

**Average: 67.2 85.6**

1. At the top of your Tester file add the following lines:

/\*\*

\* Homework - 02

\* Due: 9-9-18 by 11:59 pm

\* File IO using RandomAccessFile and OOP

\*

\* **@author** *put your name here*

\*

\*/

1. When complete you should zip **ONLY** your Tester.java and your class file to Canvas

**Rubric:**

Program works as expected: 0-5

Code is complete with all requirements: 0-5

Code is neat and organized: 0-5

Coded well: 0-5

Code is free from human input error: 0-5