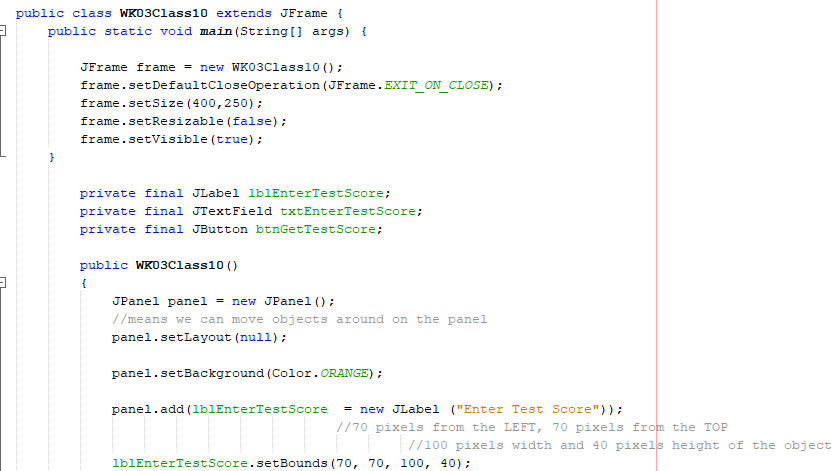
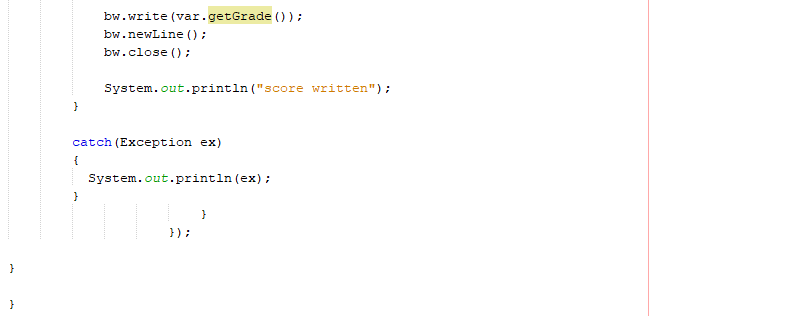
Objectives:

* Inheritance, super class, sub class, images, setting width and height of frames
* **5 class exercises on this document each worth 20%**

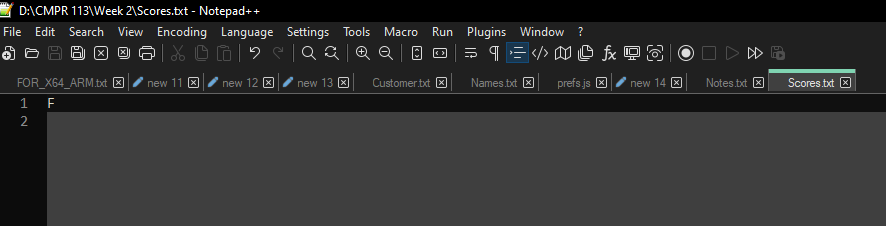
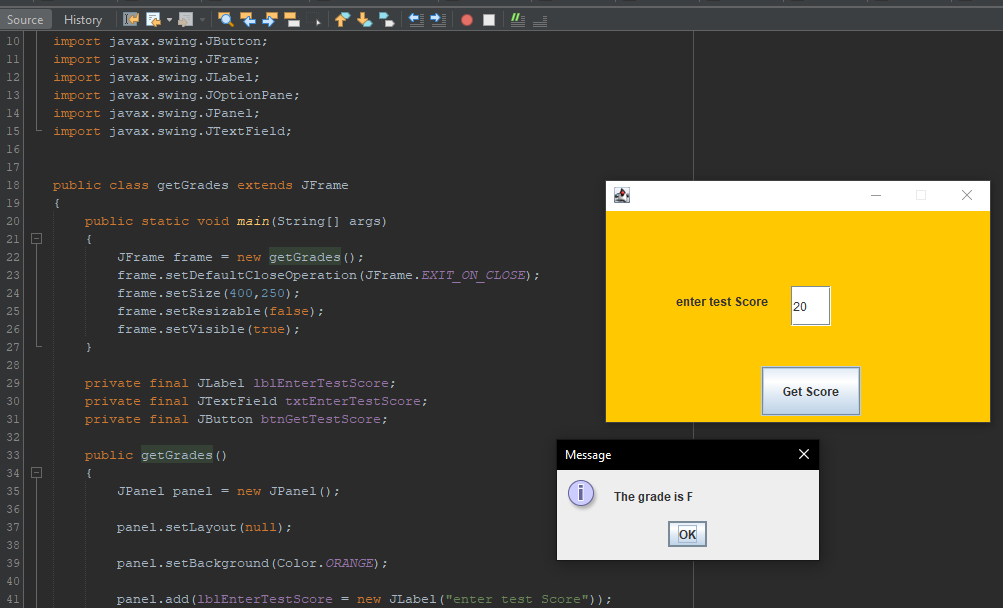
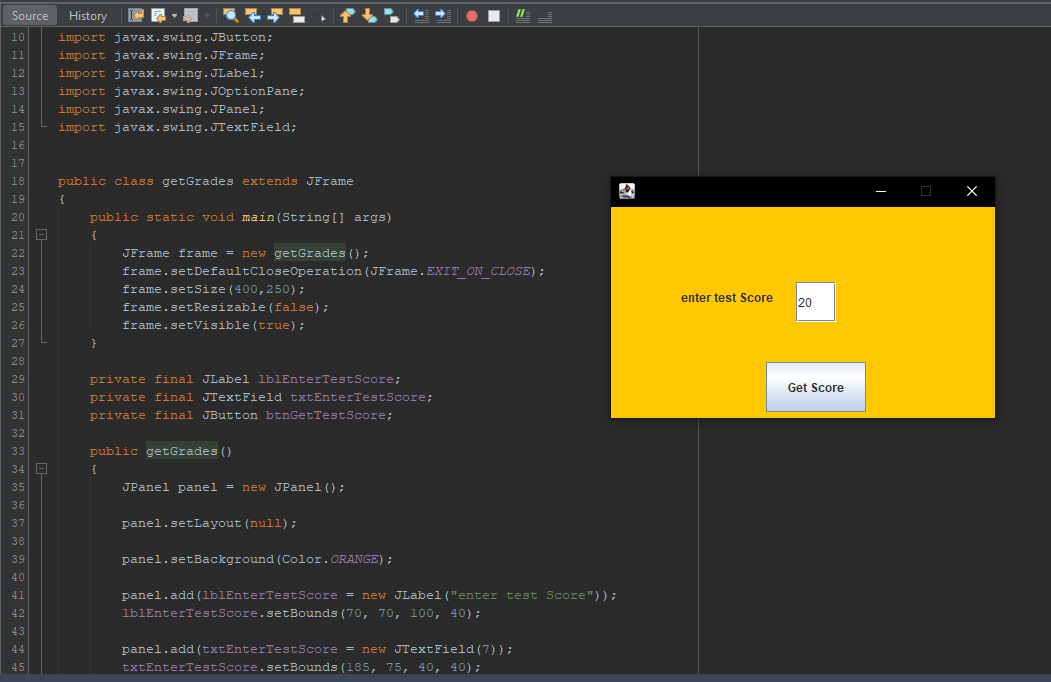
**Project #1**

**Challenge Exercise #1:** Convert the Test Score App into a GUI application, create a class and name it **GradesGUI** and type in the following below:



**Print screen the GradesGUI application with code below here.**



**Project #2**

Create a class **Questions** and type in the following code, this example will return the score. Here we are extending from the class Grades to retrieve the setScore method

A picture containing text

Description automatically generated

Switch back to the RunGrades class and add call the Questions class after the //-----------------

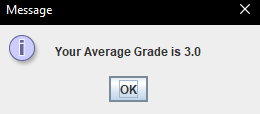
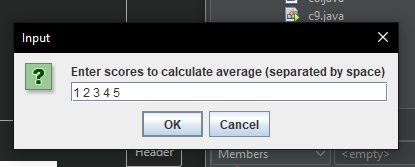
A picture containing text

Description automatically generated

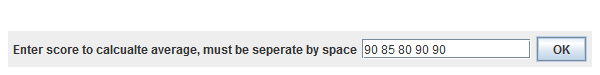
**Challenge Exercise #2:**

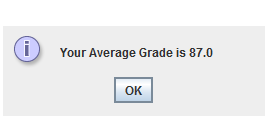
Create a class where it will capture and transfer scores instead of grade letters. Enter 5 scores and using the reader *sum* and *average* the scores into a *JOptionPane.showMessageDialog* method.

**Print screen the running application with code below here**

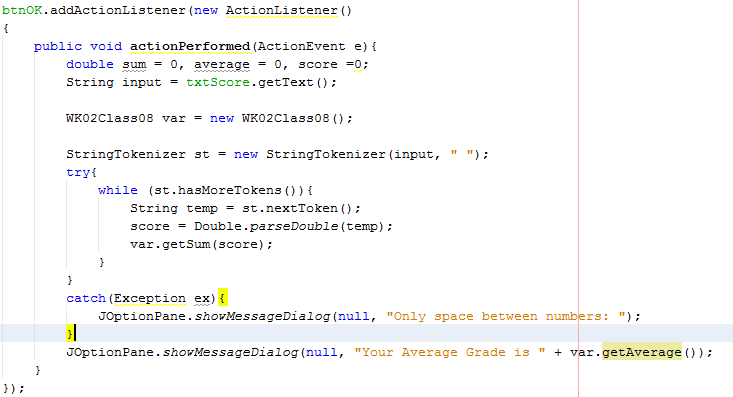


**Sample output**

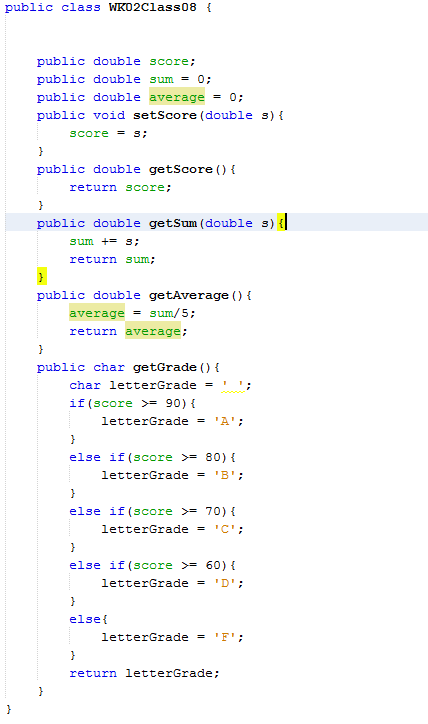




Here is the code



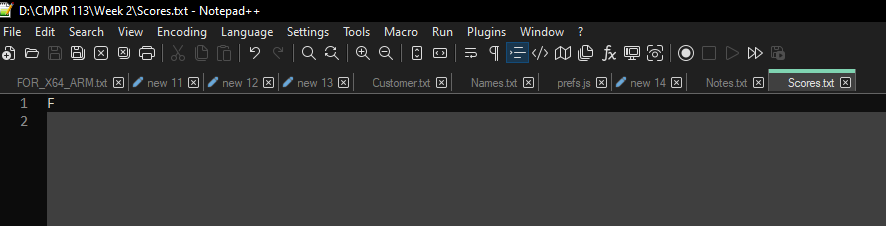
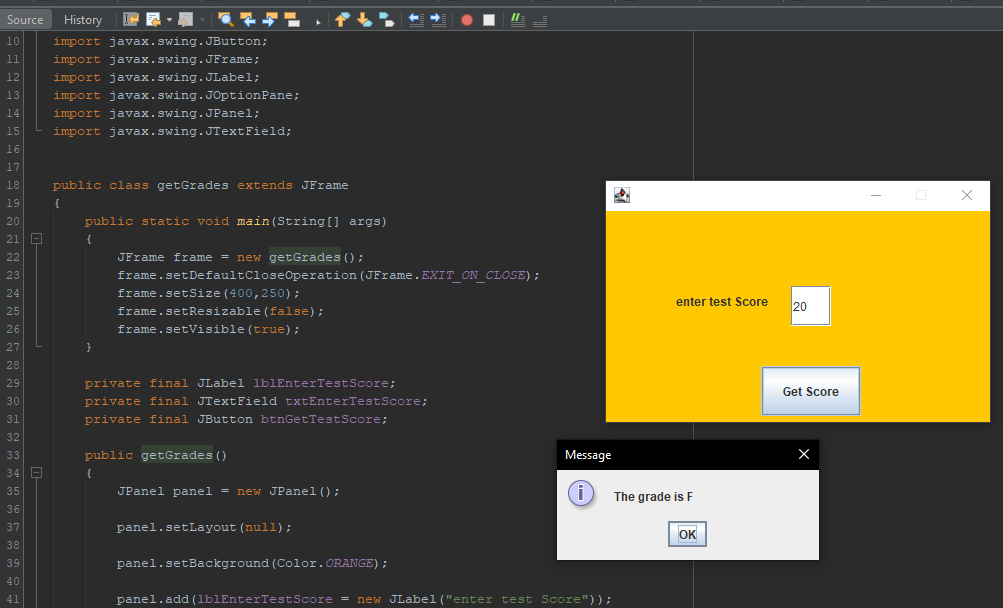
The java.util.StringTokenizer class allows you to **break** a String into tokens. It is simple way to break a String. It is a legacy class of Java.



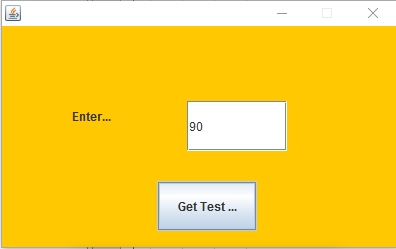
**Challenge Exercise #3:**

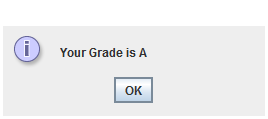
Create a class and build a GUI application for the Exam App. Be sure to have a label, text field and a button object that will transfer the data into a text file.

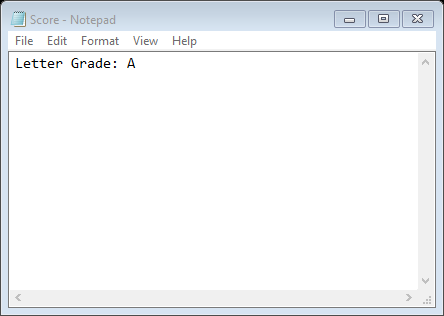
**Print screen the running application with code below here**

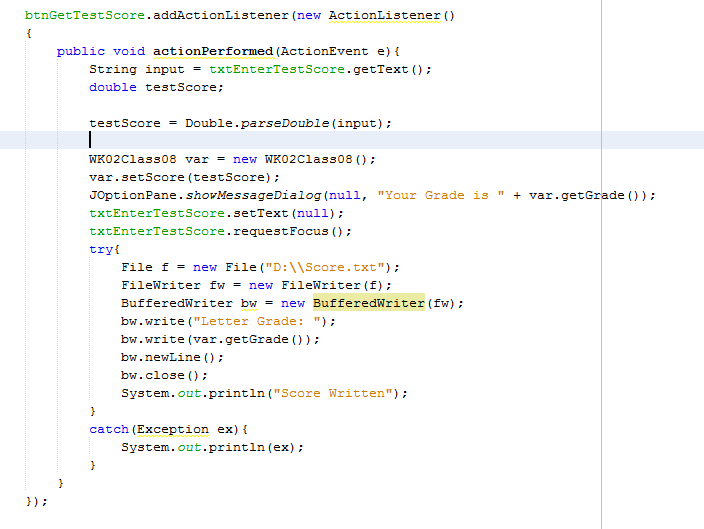


**Sample output**





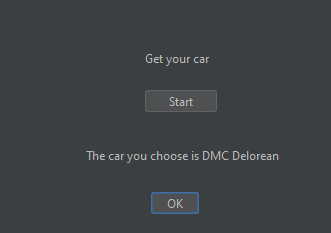


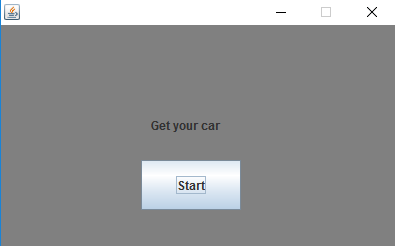


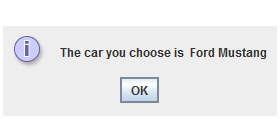
**Challenge Exercise #4:**

For the *car* and *vehicle* classes, create a GUI application that will extend from one class to the other. The functionality will be the same, except you will be creating a GUI app.

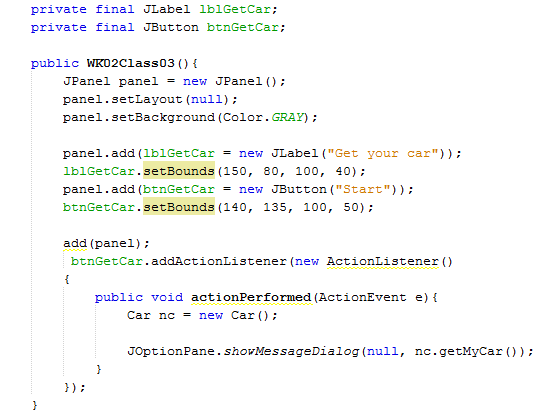
**Print screen the running application with code below here**

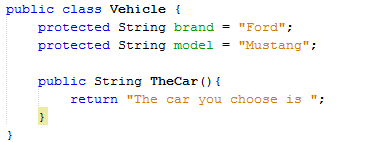




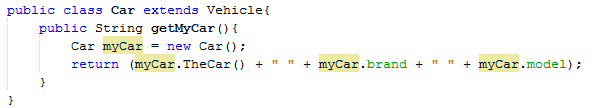


Sample code





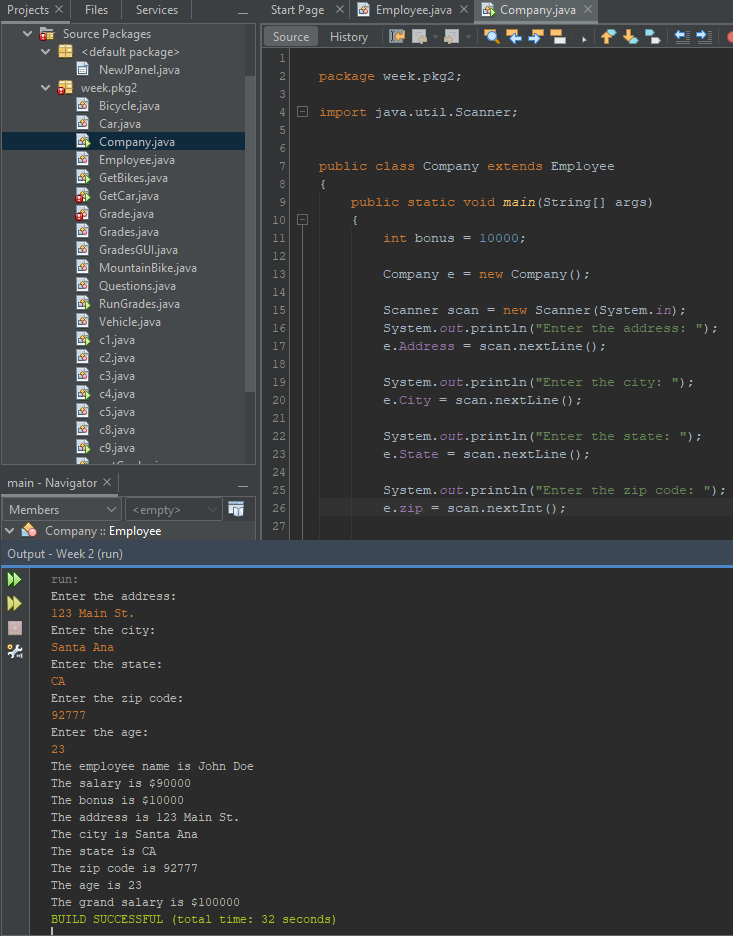
Creating the Car class that extends the Vehicle



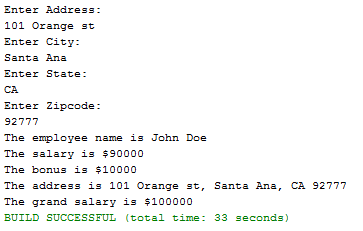
**Challenge Exercise #5:**

For the Employee and Company class created earlier complete the program so the user can input in the Scanner class the following: *City*, *State* and *Zip code*

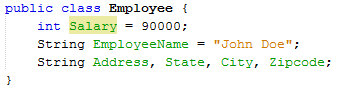
**Print screen the running application with code below here**

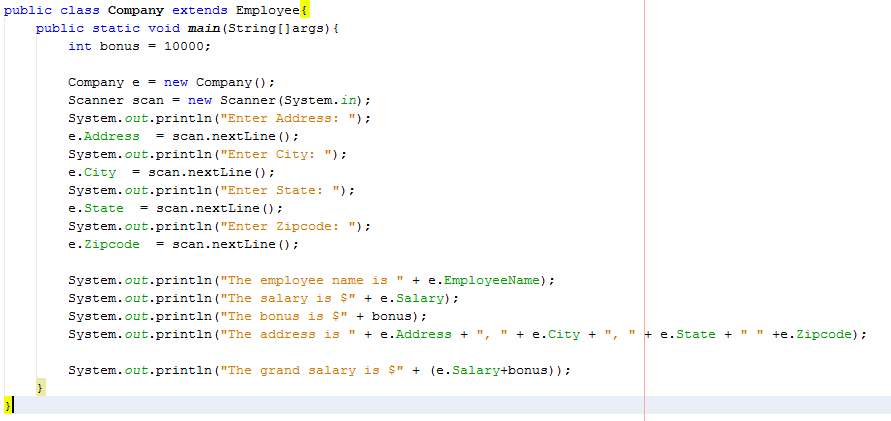


**Sample output**



Sample code





**Submit this document to Module 2 Class Exercise #2**