

# CECS 220 Assignment #4

Alex Bennett – April 2, 2015

For question 1 (7.3) of this assignment I created the class called Course as requested and used an ArrayList of Student objects to store the students in the course – which can be added using the addStudent() method. Inside of the constructor only a String for the class name is accepted. I then created the average() and roll() methods which average all test grades of all students and prints all students, respectively.

Question 2 (7.5) required me to create an Interface. I opted to create an enum called Level inside the Priority class ranging from LOW to MEDIUM to HIGH to represent the urgency of the Task. The Task class then implements the Priority interface and accepts a task name string and task description string inside the constructor. It also has methods allowing the user to obtain information about the task.

For question 3 (7.10) I went back to the Celsius to Fahrenheit convertor that we worked with in an earlier assignment and used its source code to quickly create the interface for the PigLatin translator. I made slight changes to the various components to better suit the translator and also called to the PigLatinTranslator class for the translation itself.

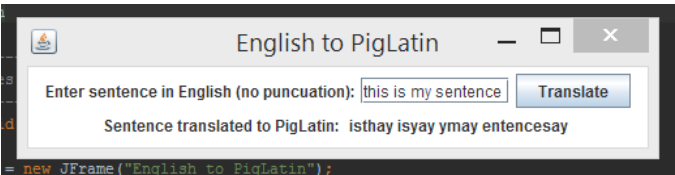
For the final question (7.13) I started from scratch and made three classes. The Interface class which creates and renders the phone frame, the Phone class which creates the display, adds the keypad, and adds the clear button, and finally the keypad itself which displays all numbers needed. I created a static listener inside of the Phone class called ButtonListener which handles button interaction. The buttons in the Keypad then call this listener as well as the “Clear” button in the Phone class itself and the listener then handles manipulating the display.

[screenshots attached below]

```
Course grade average: 85.6

Alex Bennett
Home Address:
123 Circle Drive
Louisville, KY 40208
School Address:
123 Circle Drive
Louisville, KY 40208
Test Scores: 100.0, 100.0, 100.0
Test Average: 100.0

Sam Fox
Home Address:
123 Circle Drive
Louisville, KY 40208
School Address:
123 Circle Drive
```



```
TaskList
"C:\Program ...
Name: Water the plants
Description: Water the plants fool
Priority: HIGH

Name: Pick up the kids
Description: Don't forget those kiddos
Priority: LOW

Name: Mow the lawn
Description: Better find the scissors
Priority: MEDIUM
```

