Queens College
Computer Science Department

| **CS 212 – Fall 2022 – Project 1** |
|---|

Assigned: 26 September 2022
Due:         11 October 2022
Cutoff:      14 October 2022

Write a main application called Project1.java, and a GUI (that extends JFrame) called VowelGUI.java. The main program should open a file called "input.txt" which will contain a paragraph.

    Read the lines from the file until there are no more. For each line, count the number of individual vowels in that line, using a counter for the vowels 'A' and 'a', a counter for the vowels 'E' and 'e', and so forth.

    The GUI should have a grid layout of one row and two columns (column 0 and 1). Column 0 should contain the original text from the file. Column 1 should contain 5 lines displaying the count of each of the vowels.

**Submitting the Project.**
You should now have the following files to submit for this project:

```
Project1.java
VowelGUI.java
```

(You do not have to submit TextFileInput.java or the input file.)

**Submit a jar file.**

Rather than upload the files above separately, we will use Java's facility to create the equivalent of a zip file that is known as a **J**ava **AR**chive file, or "jar" file.

Instructions on how to create a jar file using Eclipse are on Blackboard. Create a jar file called **Project1.jar** and submit that.

Upload your project to Blackboard by the due date for full credit.