Queens College
Computer Science Department

CS 212 – Fall 2022 – Project 4

Assigned: 17 November 2022
Due: 8 December 2022
Cutoff: 12 December 2022

List the Words once and the line numbers on which they appear

The content pane of the GUI should still have a grid layout of one row and two columns. When the user clicks on *List* a choice can be made of one of the five vowels, as before. Clicking on a vowel should list each word in the file that starts with that vowel, with each unique word appearing **once** in the list, along with all the line numbers on which that words appears.

Modify the *WordLine* class to store multiple lines

Change the *int* that was being used in the *WordLine* to an *ArrayList* of integers that can store all the line numbers on which the word appears.

Example showing the GUI if the user chooses "I" from the List menu item

Input file: GUI:

```
In this file it is shown    1. In this file it is shown    I: 3
that that there is more      2. That there is more          In: 1
than one word with I         3. Than one word with I        is: 1, 2
                                                            it: 1
```

Submitting the Project.

Submit all files that are necessary to run the application in a **jar** file called **Project4.jar**. Make sure the jar file contains source code (Java files), not class files. There will be no opportunities to resubmit the project. Do not upload individual Java files.

Upload your project to Blackboard by the due date for full credit. Do not send projects by email.