Lab 21 AEIOU Counter

Bradley Grose

# Problem

This code must be able to read a file that is imported into the code and count the amount of times that the vowels AEIOU appear in order. It does not take into effect consonants, spaces, caps. The only thing irt does not ignore is if another vowel interrupts the order of alphabet.

# Solution

For the vowel counter, I first have the main method that asks the user what file it wants to use for the counter. Then I have it use the getVowelCount function and then outputs the count that the method returns. The getVowelCount() first initializes variables to store the return value, the words in the statement, and strings to find the vowels. It also makes a scanner to scan the document. Using a while loop that runs until there is no more lines of code, it first will make everything lower case and remove the spaces, then using a for loop it parses all of the vowels in that line and stores it in a string. Then using an if statement, it sees if it contains aeiou in order, if so it adds to the return counter and removes that string of aeiou.

# Implementation Problems Encountered

No problems were encountered in this code.

# Lab Report Questions

1. They must have try and catch statements so that if the file is not found the code will not break. You must also close the scanner so that does not break.

2. It is not possible to go backwards in a file using a Scanner. The only way to go back is to break the scanner and initialize a new scanner from the start.