**AP Comp Sci ArrayList – WORDS FUN PART 2 Lab Value - 4**

**Lab Goal :** This lab was designed to review basic class creation and to introduce and demonstrate how to use an ArrayList.

**Lab Description :** Create a program that will store a list of Words and perform particular operations on the list of Words.

**BONUS -** Write methods to return the Word with the most characters and Word with the least characters.

**BONUS -** Maintain sorted order. All new items should be inserted in the proper position. Removing items should not change the alphabetical order.

**Sample Data :**

**Files Needed ::**

**Word.java**

**Words.java**

**WordsRunner.java**

one, two, three, four, five, six, seven, alligator

fun, fly, four, six, times, ten, plus, eight

alligator, chicken, dog, cat, pig, buffalo

**Sample Output :**

[one, two, three, four, five, six, seven, alligator]

word with 2 vowels = 5

word with 3 vowels = 0

word with 4 vowels = 1

word with 2 chars = 0

word with 3 chars = 3

word with 4 chars = 2

word with 5 chars = 2

after removing words with 3 chars

[three, four, five, seven, alligator]

number of vowels in the words removed == 4

[fun, fly, four, six, times, ten, plus, eight]

word with 2 vowels = 3

word with 3 vowels = 0

word with 4 vowels = 0

word with 2 chars = 0

word with 3 chars = 4

word with 4 chars = 2

word with 5 chars = 2

after removing words with 3 chars

[four, times, plus, eight]

number of vowels in the words removed == 3

[alligator, chicken, dog, cat, pig, buffalo]

word with 2 vowels = 1

word with 3 vowels = 1

word with 4 vowels = 1

word with 2 chars = 0

word with 3 chars = 3

word with 4 chars = 0

word with 9 chars = 1

after removing words with 3 chars

[alligator, chicken, buffalo]

number of vowels in the words removed == 3