**CSC 545/645 Computer Speech, Music and Images**

**Exercise No. 1**

**Count letters and words in a file**

**Goals**

1. Learn to read text files
2. Practice control flow: functions, loops, conditional statements
3. Practice use of data structures: lists, data structures
4. Learn to use Counters

**Procedure**

*Wordle\_MysteryWords.csv* is a file holding words for the popular game Wordle. Read this file and carry out the following tasks:

1. Read the file as a string (use the file read() method; print the first 30 characters)
2. Change the string into a list of words (use the string split method; split on whitespace); print the first 20 words then the last 20 words)
3. Print the number of times each letter occurs in the file
4. For each letter, print the number of words in which the letter occurs
5. For each letter, print the number of words in which the letter occurs multiple times
6. For each letter, print the number of times it occurs in each position in a word (number of times it’s the 1st letter, number of times it’s the second letter, etc.)
7. Print the letters and their counts in order of their numbers of occurrence in the file – highest to lowest

**Deliverables**

Submit your .py file on Blackboard.