## Programming Exercise 1

**Text Statistics** 

Write a program that reads any text file and prints the statistics shown in the sample execution below, using the Gettysburg Address (user input is in **boldface**):

```
Enter name of text file: gettysburg.txt

Statistics for file: gettysburg.txt:

Characters: 1475
Upper case: 12
Lower case: 1137
Digits: 0
White space: 279
Vowels: {'a': 102, 'e': 165, 'i': 68, 'o': 93, 'u': 21}
Consonants: 700
Sentences: 10
Average words per sentence: 27.8
```

Sentences are any string ending with a period. A "word" is any space-delimited token, including "-- ". Only consider the set {a,e,i,o,u,A,E,I,o,U} as vowels (not y or w). You will find certain functions in the built-in **str** class useful (**isdigit**, **isupper**, etc.). Round the average wordsper-sentence to one decimal.

Run your program with the file yankee.txt from this assignment's Canvas folder and submit:

- 1. Your python code in a file named textinfo.py
- 2. A screenshot of your output

Do not submit anything else.