INF 212 Analysis of Programming Languages

Week 1 Exercise

Using your favorite programming language (other than Python), implement the term frequency program that is the basis for the exercises in the book – see Prologue in the book. There is no need to follow any specific style; just make it work as best as you can. Your program should:

- Consist of only one source file, not several

- Use the list of stop words provided at
  https://github.com/crista/exercises-in-programming-style/blob/master/stop_words.txt
  Assume that the file with stop words is in the parent directory ("../stop_words.txt")

- Run from the command line and take the name of a file as input, like this:
  ```
  $ [language_interpreter] your_program some_text_file
  ```

- Successfully run over Pride and Prejudice available at
  https://github.com/crista/exercises-in-programming-style/blob/master/pride-and-prejudice.txt

- Successfully pass the unit test available at
  https://github.com/crista/exercises-in-programming-style/tree/master/test
  Specifically, the output of your program over the book Pride and Prejudice should be this:
  https://github.com/crista/exercises-in-programming-style/blob/master/test/pride-and-prejudice.txt

What to submit:

- Starting this week, and for the rest of the quarter, we are going to use Cloud9 IDE, an online virtual environment. https://c9.io/ Please create an account there, and create a workspace for all your projects. The workspace should be organized as follows:

  pride-and-prejudice.txt
  stop_words.txt
  Week1/
          YourFilesForWeek1
  Week2/
          YourFilesForWeek2
  ...

- Share that workspace with the TA. Instructions will be sent by email.

- When you are done with your project, leave the files there. The TA will then visit and grade. Note that time stamps will be checked.

Grading criteria:

1. *Correctness*: does your program produce the correct output for Pride and Prejudice? (50 points)
2. *Form*: is it only one file? (10 points)
3. *Operation*:
   a. Does it run from the command line? (10 points)
   b. Does it take a file name as argument? (10 points)
   c. Does it read the file of stop words from the parent directory? (10 points)