DAT-119 – Python 1

**Homework 9**

As always, you need to write these programs *without searching online*. You can use the textbook, the Jupyter notebooks, conversations with your colleagues and me, and the approved resources; that’s all. If you get code from anywhere besides your own brain (*especially* if it comes from any approved outside resource or from reading ahead in the book), you need to cite the source in a comment.

Also, as always, **be sure to follow the style guide**, including turning in a plan with your code. Seriously, **don’t forget to plan before you code!**

Write a Python script that takes in a file (use prejudice.txt), converts it into Pig Latin, and outputs to the console. I’ve given you a shell of a file (pig\_latin.py), so you don’t have to pull in the text yourself – you just need to deal with the giant string held in the variable prejudice.

To make a word into Pig Latin, remove the first letter, and place that letter at the end of the word. Then, append the string “ay” to the end of the word.

Maintain the capitalization and punctuation of the words. (A fallback, if you’re running out of time and OK with a maximum grade of “B” on this project: you can strip all of the punctuation and not put it back.)

So the first line of the file, which originally read

“It is a truth universally acknowledged, that a single man in possession of a good fortune, must be in want of a wife.”

Would look like this in Pig Latin:

“Tiay siay aay ruthtay niversallyuay cknowledgedaay, hattay aay inglesay anmay niay ossessionpay foay aay oodgay ortunefay, ustmay ebay niay antway foay aay ifeway.” (Note the capitalized first word.)

**Optional** improvement, if this seems too easy – worth 15 bonus points if you get it:

The way I learned Pig Latin, as a kid, was that you didn’t move the first letter if it was a vowel, and if the first two letters were both consonants, they moved together. So instead, you might choose to have your program follow that rule, outputting this for the first line (I’ve bolded the differences):

“**Itay isay** aay **uthtray universallyay acknowledgeday, atthay** aay inglesay anmay **inay** ossessionpay **ofay** aay oodgay ortunefay, ustmay ebay **inay** antway **ofay** aay ifeway.”