

Fall 2025 CIS 424 Project 1

(Due Sep. 25)

Write a Python program called `wdcount_XXXXXXX.py`, where `XXXXXXX` is your CSU ID, which uses a dictionary to count the number of occurrences of each word (ignoring case) in a pure text file encoding UTF-8. Note that the input text file name is given from the command line. To make it simple, you may assume that the file does not contain any punctuation characters. (According to [A Quick Guide to Punctuation](#), “The standard English punctuation is as follows: period, comma, apostrophe, quotation, question, exclamation, brackets, braces, parenthesis, dash, hyphen, ellipsis, colon, semicolon”). The input text file may contain the space characters and the tab characters which should not be counted. Your program should print each word along with its number of occurrences in descending order. That is the most frequent word should be printed first.

Issue “`python3 wdcount_XXXXXXX.py input_file_name`” on the spirit machine to test your Python program before your turnin it. (You need to create your own input text file to test your Python program.)

Please use “`if __name__ == '__main__':`” in your code and avoid global variables (read sections 2.5 and 3.17 at <https://google.github.io/styleguide/pyguide.html>).

Two articles about the variable `__name__` in Python:

<https://medium.com/python-features/understanding-if-name-main-in-python-a37a3d4ab0c3>

https://www.geeksforgeeks.org/what-does-the-if-__name__-__main__-do/

Please put the following information in the comments at the beginning of your Python program: your name, your CSU ID and the login id you used to turnin the project.

Turning it in

You must submit your program electronically by using the following command on the **grail** machine

```
turnin -c cis424x -p proj1 wdcount_XXXXXXX.py
```

where `XXXXXXX` is your CSU ID.

Start on time and good luck. If you have any questions, send e-mail to s.tomar14@vikes.csuohio.edu or w.xiong15@csuohio.edu.