

Fall 2025 CIS 424 Project 3

(Due Nov. 18)

Write a Python 3 program `tlparser_XXXXXXX.py` (where `XXXXXXX` is your CSU ID) to parse the five given timelog data files in the folder "Home Page/ProgrammingProjects/proj3/TimeLogFiles" of the Blackboard to get how many hours and minutes the author spent in each file. The timelog file name will be an argument for your Python program from the command line. For example, you run your program on the **spirit** machine like `"python3 tlparser_XXXXXXX.py TimeLogCarbon.txt"` (where `XXXXXXX` is your CSU ID).

- a. Your program needs to report the line number if there is something wrong with the format of the time data in that line that your Python program cannot parse. We cannot assume that there will be a time data value in each line. The line like `' - 10.remove "other" '` is a perfect line.
- b. Your program starts to count the time after it finds the hard-coded "Time Log:" (case insensitive, there is a space between Time and Log).
- c. The "pm" and "am" should be case insensitive, i.e., 9:10pm or 9:10PM or 9:10pM or 9:10Pm are all valid time value.
- d. "9:10pm - 11:40pm" or "9:10pm-11:40pm" or "9:10pm -11:40pm" are all valid time periods, i.e., the spaces between "-" and the time value are not important.
- e. The only Python module you can use in your source code is the "sys" module. Do NOT use other modules such as "re", "datetime", "time", "pandas", "numpy", "dateparser", etc.
- f. We assume there will be no space within "9:10pm".
- g. Please write a function "GetTimeValue" with appropriate parameters to parse the time value like "9:10pm".
- h. Please write another function "GetTimePeriod" with appropriate parameters to parse the time period like "9:10pm - 11:40pm". It will call the function "GetTimeValue" to parse the time values "9:10pm" and "11:40pm".

Please issue `"python3 tlparser_XXXXXXX.py TimeLogCarbon.txt"` (where `XXXXXXX` is your CSU ID) on the **spirit** machine (Python version 3.8.10) to test your Python program before you turn it in.

Please use `"if __name__ == '__main__':"` in your code and avoid global variables (read sections 2.5 and 3.17 at [Google Python Style Guide](https://google.github.io/styleguide/pyguide.html) (<https://google.github.io/styleguide/pyguide.html>)).

Turning it in

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

```
turnin -c cis424x -p proj3 tlparser_XXXXXXX.py
```

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.