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Overview of Portfolio 1: Text Processing with Python

The program in this portfolio reads from a file containing details about 5 employees, processes and standardizes the data into a uniform format using regex, creates objects for each employee using the modified data, creates a dictionary from the 5 employee objects, and outputs each employee's information.

To run this program, download both files 'Portfolio1_axp190109.py' and 'data.csv' and place them in a new project folder in a Python IDE. Create a folder inside the project folder and name it 'data' and place the 'data.csv' file inside the data folder. Before running the program, enter the file path ('data/data.csv') as a system arg. Now, run the program.

In my opinion, I believe Python is relatively more efficient for text processing. Python's string functions, such as split(), upper(), and lower(), make simple text processing easier and faster compared to other programming languages. Python also has many useful libraries, such as re, that make text processing easier to program. A weakness of Python for text processing, however, is that Python's dynamic typing often raises unexpected run-time errors that are often tedious to debug when coding text processing programs.

Some new things that I learned through this assignment were how to implement regex, how to pickle a file, and how to enter and check for system arguments in a program. Some things in this assignment that were a review were defining a class, prompting the user for input, and opening and reading from a file.