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CSC 365
Lab 1-1

Writeup

Initial Decisions:
We chose to use Python for its simplicity as a scripting language and its strength in parsing command line input. Complex libraries were not needed for this lab, so we had little reason to use a compiled language such as Java or C. We programmed on the CSL Unix Servers to ensure consistent results and easy testability.

Internal Architecture:
We used a list of Student objects to hold data for each student upon parsing through the students.txt file. This allows us to use an index to refer to each student.

Task Log:

1. Program Design
    a. Dane
    b. 09/20/2017 18:00-19:00
    c. 1 hour
2. Basic Program Loop
    a. Dane
    b. 09/21/2017 12:00-14:00
    c. 2 hours
3. Implementing Searches
    a. Dane and Kartik
    b. 09/21/2017 17:30-18:30 and 09/23/2017 12:00-15:00
    c. 4 hours
4. Test Suite
    a. Kartik
    b. 09/24/2017 14:00-16:00
    c. 2 hours
5. Writeup
    a. Kartik
    b. 09/24/2017 16:00-17:00
    c. 1 hour

Testing Notes:
We faced an early bug concerning command inputs. If the command entered started with the same letter as a valid command, but contained incorrect letters afterwards, it was still registered as a valid command. This was resolved by using string constants with Python's substring functionality. The bug was quickly resolved.