

**Lab 1 Part 1**  
CSC 365 - 07/08  
Von Dollen

**Team Members:**

Makena Kong  
Whitney Larsen

**Initial Decisions:**

Programming Language: *Python*  
Libraries: *Pandas*  
Environment: *Atom (Teletype), Terminals*

**Architecture:**

Data Structure: *Pandas DataFrame*

**Task Log:**

Task	Member	Total Time
Import Students.txt into dataframe	Makena	5 min
Parse Command Line (switch function)	Makena	1 hour
S[tudent]: <lastname>	Both	10 min
S[tudent]: <lastname> [B[us]]	Both	1 min
T[eacher]: <lastname>	Both	10 min
G[rade] : <number>	Whitney	5 min
B[us]: <number>	Makena	1 min
G[rade]: <number> [H[igh]]L[ow]]	Whitney	15 min
A[verage]: <number>	Whitney	15 min
I[nfo]	Whitney	20 min
Q[uit]	Makena	1 second

**Testing:**

Overall, testing was fine. We implemented the project incrementally, meaning we tested each function after we created it and moved onto the next one.

- BUG: printing empty dataframe where it shouldn't
  - Improper dataframe searching syntax - added .loc to fix it
- BUG: info displays an extra thing
  - SOLVED: Added to\_frame() command to value\_counts()
- BUG: entered info isn't found
  - SOLVED: Returned upon empty dataframe
- BUG: index out of bounds error in grade() with high/low
  - SOLVED: Looked up student index in full students\_table rather than smaller student\_list

#### **Final Notes:**

- I firmly believed that python had a switch function and spent at least 20 minutes trying to figure out which part of my syntax was wrong. I ended up writing my own switch function filled with if statements.