Lab 1-1 Writeup

**Team Members:** Lauren Klein, Andrew Gaugh

**Initial Decisions:**

We chose to use Java for our implementation, and git in order to work remotely on the labs.

**Internal Architecture:**

We created a data class called Student in order to store information on each row of the text file. Our main internal architecture consists of an ArrayList of Student that was populated from the text file.

Most functionality was simply achieved by iterating over this ArrayList. However, in the case of summing up the number of students in each grade, we created a HashMap that mapped the grade to the current total.

**Task Log:**

Andrew Gaugh DATE TIME DESCRIPTION

Lauren Klein 4/7/17 6:00pm – 7:00pm (1) Finishing implementation started by

Andrew and completing remaining

methods.

Lauren Klein 4/7/17 9:30pm – 10:00pm (.5) Created testing file and ran tests.

Lauren Klein 4/7/17 10:00pm – 10:30pm (.5) Managed and packaged deliverables,

Including this write-up.

Andrew Gaugh DATE TIME Added contributions to Writeup

**Notes on Testing:**

Testing took place at the time specified above.

A display bug was found with TC-8, where there wasn’t a comma between the last and first names for the Grade option.

A bug was found with TC-20, where for grades that had students, there was exactly one less student than expected. This was because when creating a value in the Hashmap that kept track of the grade level and count, it was initialized to 0 instead of 1.