Jordan Felker CSCI 271 Project 1 Report

(post writing jordan here disregard the redirect output confusion I released it is literally just < and then whatever the name of the txt file is, I was over thinking it)

After being lost on the first day we were introduced to java after sitting down and looking at the examples provided in last friday's class as well as some extra help from w3schools to explain a few things. I am realizing that java is a lot more similar to c++ than I originally thought.

Delving into my code at the time of writing this I'm still unaware if you wanted us to write our programs to read in an entire file of input from a user or be a bit simpler in the way I did mine of manually asking the user for each input. I decided to prompt my user each time and #1 I thought it was easier for my brain to visualize myself going through the for loop 7 times and incrementing the number +1 afterwards to keep track of which input I was on as well as from a laziness standpoint where in a perfect world I don't have to write exceptions for bad inputs if I specifically ask for a single number after telling my user that I only take 0-100. Obviously in the real world that wouldn't be a good way of handling things as people especially users for some reason tend to break things or not play by the rules. Needless to say, to improve the code some exceptions for cases when a user enters anything other than a double as well as an exception for when a user enters a number that is outside the range of 0-100, would be beneficial to dummy proofing the code.

Either way the purpose of my program is to calculate my grade by taking an average of both tests and assignments and then multiplying them by 0.4, 0.2, 0.3 and 0.1 this makes their weights 40% 20% … etc I have accomplished this with the help of a for loop for both the assignments and test categories respectively. The for loops work simply by starting by initializing I to 0 and while I < 7 incriminating by 1. These conditions lead to the for loops running 7 times in order to read each input from the user and prompt the user again for the next input. When I prompt the user for the next Test for example I say test + whatever number I is to tell them what test they are entering meaning the first time they run the loop it'll say test 1, the next time test 2 and so on. After that the user simply enters their midterm and final grades respectively. The exam weight is then determined based on whether or not the average of your exams is greater than or equal to 80. Along with that if your final exam grade is less than 60 your final grade will be automatically capped at 60 as stated in the syllabus. After calculations have been finished I print the user the results and close the scanner.

I manually entered the example inputs you provided for us and the main take away I got was that our exams are really the maker or breaker of our grade. You can struggle on the assignments and not do as well on the tests but if you kill it on the exams you will still be okay. The opposite can also be true. You can do amazingly on the work, the assignments and tests but if you show up to exam day not knowing what you are doing you are COOKED. Overall you

were right the assignment was easier than it was being made out to be, the hard part was looking at the syllabus and understanding how to do the calculations properly as well as translating c++ to java which isn't as difficult as it seemed either. It helped being able to look at the example code in the example files as well as the powerpoint.