Xavier Jennings

CSCI271

Assignment1 - Report

The whole purpose of this assignment was to use java to create a program that calculates students' grades, based on the formula that was provided to us in the syllabus. The program reads in scores for the assignment, test, midterm exam, and a final exam. Using these values, the program follows the grading formula to compute the final grade.

This assignment didn't really help me practice java skills that much, but I did learn some skills such as input, loops, and arrays.

The program needed to read:

- Seven assignments scores, seven test, one midterm, and one final exam

After reading the values the program calculates the averages for assignments and tests. Then the program calculates a value called E using the formula and then uses it to find the final grade.

I implemented the solution using basic java features. I used arrays to store the assignment and test scores and used for loops to add the values and calculate averages. A Scanner object was used to read input from the user.

(if , else if, and else) were used to decide which grading formula to apply based on the value of E. This made sure the program followed grading rules.

I also worked on a version that reads student data from a CSV file using a Scanner and a File object. In this version, each line is split using commas so the program can read individual scores and calculate grades for many students.

The program was supposed to correctly calculate the final grade but unfortunately I didn't finish it. The program does not handle cases where the user enters strings or invalid input instead of numbers. The program would crash if strings were entered instead of numbers.

This assignment was very hard because I was expected to already know how to start and structure the program. I wasn't given much guidance on how to actually implement it in Java. Because of this, I struggled to fully complete the assignment and understand all parts of the code and now I have to take a test on something I don't know and fail…

Working on this assignment showed me that I need more practice with java basics such as loops, arrays, and reading input. I am still learning these topics, and this assignment helped me realize that I wanna pass so I don't have to ever take this class again!