Weighted Average Calculation Project

In this project, I will be writing a C++ program to calculate a student’s final course average based on grades for their homework assignments, labs, and exams.

# Outline

As with any project, it is always important to start with an outline of what will need to be done in order to achieve the required goal. Below is my outline for this project, which this documentation will reflect:

* Planning the project
* Initializing and declaring variables
* Including libraries
* Writing the program
  + Reading user input
  + Working with data from the user
  + Formatting output
* Debugging
  + Ensure project requirements are satisfied
  + Verify that output is accurate
  + Polishing the details
* Final thoughts

# Planning the project

Before I even start writing code, let’s first analyze the project requirements and determine what needs to be done to satisfy those requirements:

*For this project, you will write a C++ program that calculates a student’s final course average based on the grades for their homework assignments, laboratory assignments, term paper, midterm exam, final exam and class participation.*

Right away, I notice that I will likely create several sets of variables, each for

There are four (4) homework assignments, each worth a maximum of 15 points. The homework average is 10% of the final grade for the course.

*There are four (4) laboratory assignments, each worth a maximum of 25 points. The laboratory average is 20% of the final grade for the course.*

*The midterm and final exams are each worth a maximum of 100 points. The midterm and final exams are each 25% of the final grade for the course.*