

Student 1 **Last** Name: Chi

Student 1 **First** Name: Brian

Student 1 ID: 913753059

Student 2 **Last** Name: _____

Student 2 **First** Name: _____

Student 2 ID: _____

INCLUDE this page, the next page, and your solution in your submission

- Your solution **MUST BE TYPED**
- Write your solution with enough detail that the average student could generate a python program from what you have but at a high enough level so that people outside the class can understand what is to be done
 - Focus on what you want to do and not so much on how it should be done as this will help you come up with a more coherent description
- I suggest numbering your steps so that you can refer back to them easily if you want to repeat any of them
- You do **not** need to say anything about getting input/printing output unless input or output is a big focus of the assignment
- You **may** use mathematical operators in your description (+, -, *, etc) but they should be used sparingly if you choose to use them as we are more interested in what you are doing in your program than how you are accomplishing it.
- You **may** assign values to variables to be able to easily reference them later on but this should probably be done sparingly as your answer should not look like code
- You **may** define methods and call them
 - You should probably be doing this quite frequently past the first homework
- You may **not** call builtin functions
 - If you wanted to replace all the A's in a string called myString with B's you would just say "Replace all the A's in myString with B's"

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In order to calculate the required grade, I did the following:

1. First I asked the user for the grade wanted, the percent for the grade wanted, their current percent, and the weight of the final.

2. Then, I know that grade wanted = (grade on final * weight of final) + (weight of remaining * grade of remaining)

3. By isolating the grade on final, we get the following formula:

grade on final = (grade wanted - (weight of remaining * grade of remaining)) / weight of final

4. Using this formula, I can find the required grade on the final in order for the user to get the grade they want in the class.

5. I then print that grade with the correct formatting, along with the letter grade they mentioned earlier.

