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CSC\_157\_Lab\_01 Q&A   
  
**(1)** Why are comment statements, such as this one from our starter code, important to include in our programming assignments?

**# variables declared and initialized**

Comment statements are important because they communicate to other developers who may work with your code later what it does, and also serve as reminders to your future self about what you wrote.

**(2)** Explain the purpose of the **-=** assignment statement shortcut as it was used in the starter code?

**targetGradePoints -= creditsEarned \* currentGPA**

**The -= operator is called a “shorthand assignment operator” and is used as a shortcut for the following statement above: targetGradePoints = targetGradePoints – (creditsEarned \* currentGPA)**

**(3)** If variable **requiredGPA** currently holds the value 3.913 , then what would be displayed when the statement below is subsequently executed.

**print ("Required GPA", format(requiredGPA,"0.2f"))**

**“Required GPA3.91” would be displayed after running the statement above.**

**(4)** Why is a GPA computation classified as a type of weighted average?

**GPA is a weighted average because it takes into consideration the difficulty of the courses you’ve taken (based on credit hours) in its calculation. So, getting an “A” in a course with 3 credit hours doesn’t “weigh” as much as getting an “A” in a course with 4 credit hours.**

**(5)** In the starter code, the variables **creditsEarned** and **currentGPA** were type casted as follows.

**creditsEarned = int(input("enter " + msg1))**

**currentGPA = float(input("enter " + msg2))**

Should both of these casts be **int()** or **float()** or should we keep them both as is? Explain your answer.

**I think that these should both be kept as is, because course credit hours are typically always integers / whole numbers, and GPA is typically always a decimal / float.**