Weekly Reflection Week 3 DDP1-D

What I've learned:

1. Loops are statements that execute whatever commands are in their block several times until a certain condition is met. There are two different types of loops in Python, which are for loops and while loops. From my own knowledge, there is also what we call a do…while loop in other programming languages such as Java or VBScript. The main difference between these two types is that 'for' and 'while' are what we call "pre-test" loops while the 'do…while' loop is what we would refer to as a "post-test loop." A pre-test loop checks the truth value of the conditional before running the code block, while a post-test loop checks the truth value of the conditional after running the code block.
2. In python, we can use what are called counter variables to control when a while loop stops. It is a variable used to count how many iterations a loop has gone through. In the conditional statement of the loop, this counter variable is limited to some point, after which the loop's execution is halted.
3. SENTINEL LOOPS ARE WHILE LOOPS WHERE A NON-DATA VARIABLE IS USED IN THE CONDITIONAL STATEMENT OF SAID LOOP, AND ITS VALUE IS MODIFIED WITHIN THE LOOP TO DETERMINE WHEN THE LOOP STOPS.
4. A for loop, on the other hand, is a loop whose number of iterations has been pre-determined before its execution, and its use in python is in the iteration through a colelction of objects, such as lists, strings, or dictionaries.

Improvements for Learning Experience

1. I don't really have much to comment on this week

Questions:

1. No questions so far either

Comments:

Perhaps it would be helpful to describe for and while loops in a more general manner(?) as if I remember correctly, the implementation and logic behind for and while loops in different languages may vary. For example, for loops in in Java also need counter variables like while loops do in python, so what are the differences between the two loops? Why do they keep their namesakes of 'for' and 'while' while being functionally identical?