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CSC 201

Lab 2 Report

The main objectives of this lab was to figure out loops more efficiently as well as nesting loops in other loops, as well as being able to find and remove parts from strings using length, and finding commands.

Some of the important variables in this program were the while loop, to run the program continuously until ‘end’ is typed and the if loop to find the different ways to do equations, print results, end the program, or display and error when something unwanted is plugged in. another command that was very useful was the .find command. Using this command, we can find the sign and use that to separate one side from another. And the last important command was the list.insert command. Using this command, I could insert the most recent value of A (the most recent expression and answer) into the list so when expr = last, it can print out the most recent three values of A.

The algorithm for this assignment went as followed, I found the sign, which directed you to the right elif block and then used the sign as the breaking point to find the two numbers of the problem, before and after the sign. And then converting the that string of characters to integers, and then we can do whatever the sign wants us to do.

There are still some issues with the program, one thing is that it will always save your expression and answer, but it will only print out the most recent 3. For example, if you do a million problems, and type ‘last’ it will show you only the most recent 3 but the rest are still saved taking up memory. Another issue with the program is that if you use and other symbols in between numbers or on the ends such as Parentheses, that would interfere with having the sign evenly splitting the two numbers than the program would crash. I personally had issues with figuring out how to log the expressions each time you run the loop. And I’m still not sure how to keep the list of A at a maximum of 3 and be able to move the strings down the list as a new one is added.