**Pseudocode #1: Finding the Average**

1. Add all numbers in the variable list\_of\_numbers
2. Divide the sum of the numbers by the amount of numbers added
3. Print the answer as a float

**Pseudocode #2: Input Checker**

1. Scan all numbers
2. If string has a decimal say “True”
3. Else say “False”

Reflection Essay

Doing this programming was fun and challenging. The actual programming and understanding how to code was not an issue. The struggle was the mathematics part of the program because I’m not a finance major so I’m not familiar with those equations or how to find them. The given equations that were provided were no problem, just figuring out equations that weren’t provided was a pain.

What was really helpful was the lab I did before doing this assignment. We did a body mass index calculator which was similar to the loan calculator. I constantly checked back and forth between my body mass indexes calculator’s codes which was correctly made to help craft my loan calculator program that was in progress. Thanks to this I even managed to do some bonus work on my homework. If you enter characters instead of integers or floats the program will not crash but instead it will leave a message that tells you that you didn’t enter your information correctly.

The most fun was when I struggled to get my inputs to show onto the shell. Then my friend Ali suggested that I might need to have a beginning and end to my code and when I did that my inputs finally showed. It was a small celebration and it was satisfying seeing my work come to life.

I wouldn’t recommend this exact assignment as a first assignment because the math is very complicated and takes focus away from trying to grasp the concepts of programming. Something a little simpler like finding the area of a geometrical figure like a cylinder which is something all the students are familiar with calculating easily. It’s hard to check if my work is correct if I can’t do the calculations simply to see what numbers are entered are doing what they are supposed to do.

In conclusion it was a good assignment, but a bit frustrating and time consuming. The actual coding was good just the problem we were coding was the hard part, it felt like I was expected to know some finance before taking this class.