Team Members: Maxwell Key, Ben Smith, DJ Jones, Richard Cashion

Problem 1

Definition of Done: Have a complete plan of what the program would look like, written in pseudo-code, and a reasonable attempt to put that plan into code.

Pseudo-code:

While the user has not provided the first number:

Ask user for the first number

If the input is a number, break out of the loop

If it is not a number, tell them to try again

While the user has not provided the second number:

Ask user for the second number

If the input is a number, break out of the loop

If it is not a number, tell them to try again

Add these two variables together

Function(float input)

Take the input and convert it to a string

Take the last character of the string and put it into its own variable

Convert the input back to an integer

Convert the last character back to an integer

Add the last character to the input

If the result is greater than 9:

Send the input into another call of Function and set input equal to the result

Return result

Call function on the sum of the two numbers

Print “The result is: “ and the result of function

Testing:

Try inputting an empty string – Try catch catches the issue

Try inputting a number with spaces in it – Try catch catches the issue

Try inputting a negative number – Try catch catches the issue

Try inputting a string – Try catch catches the issue

Try inputting a number that is larger than the data type can hold

```
# -*- coding: utf-8 -*-
"""
Created on Tue Feb 21 10:01:33 2023

@author: Richard Cashion, Maxwell Key, Ben Smith, DJ Jones
We did a bit of Reuirements, Chaos, and Test Driven.
We all sat down and started pseudocoding out a design before
we ever started writing the code.
"""
firstNumberChosen = False
secondNumberChosen = False
userInput = ""
lsDigit = ""

while (not firstNumberChosen):
    userInput = input("Please enter a number: ")
    try:
        userInput = int(userInput)
```

```
        firstNumberChosen = True
    except:
        print("Please enter a valid number.")

while (not secondNumberChosen):
    lsDigit = input("Please enter a number: ")
    try:
        lsDigit = int(lsDigit)
        secondNumberChosen = True
    except:
        print("Please enter a valid number.")

# def recursiveSum(float userInput):

#     return userInput

print("Result: ", userInput + lsDigit)
```