Write a program (Python script) named mycalc.py, which implements a simple calculator using python. As you approach this assignment try to visualize how you would use a calculator. Typically you would enter a number into the calculator, next you would select an operation to perform (add, subtract, multiply, divide), next you would enter a second number, finally you would press the equals sign to begin the calculation. The following examples illustrate both a flowchart and the pseudo code that outlines how to solve the calculator problem. They provide a conceptual model (a conceptual model is something that attempts to describe how something works) of the calculator, define how the program must flow from one task or statement to the next, and describes the functionality that the program will provide.

You should submit a script file (.py or .txt) and an output file (.doc or .pdf). Don’t forget to use comments and readable variable names.

*Pseudo Code for Python Calculator*

Prompt for first number   
Read first number and store in variable   
While first number is equal to 0  
   Display error  
   Prompt for first number  
   Read first number and store in variable  
Display operations (1-add, 2-subtract, 3-multiply, 4-divide)   
Prompt for operation   
Read operation and store in variable  
While operation is less than 1 or operation is greater than 4  
   Display error  
   Prompt for operation  
   Read operation and store in variable  
Prompt for second number   
Read second number and store in variable  
While second number is equal to 0   
   Display error  
   Prompt for second number  
   Read second number and store in variable  
If operation is equal to 1 (add)   
   Then   
     Add first number to second number and store result in variable   
Otherwise if operation is equal to 2 (subtract)   
   Then   
     Subtract second number from first number and store result in a variable  
Otherwise if operation is equal to 3 (multiply)   
   Then   
     Multiply first number with second number and store result in a variable Other wise if operation is equal to 4 (divide)   
   Otherwise (divide)  
     Divide first number by the second number and store result in a variable   
Display the result stored in the variable   
Exit the program

*Flowchart for Python Calculator*

