

**Assignment:**

Assume that you have just been given an assignment to develop a Python program that will act as a calculator. The calculator must prompt the user to enter two numbers and an operation. The operation can be to add, subtract, multiply, or divide the two numbers. The program must check that the user has not entered the value 0 for either of the two numbers. The program must also check that the user has entered one of the 4 value operations (add, subtract, multiply or divide). The program must perform the appropriate calculation and must display the results. Your assignment is to develop the conceptual model for this calculator. You can develop your conceptual model using either pseudo code or a flowchart. Your conceptual model must be readable as a word document or pdf file and submitted as part of your assignment.

**PSEUDOCODE:**

Prompt user to enter number 1

Check number (num1) does not equal 0

    IF num1 = 0

        Prompt user again (step 1)

    ENDIF

Save input to num1

Prompt user to enter number 2

Check number (num2) does not equal 0

    IF num2 = 0

        Prompt user again (step 1)

    ENDIF

Save input to num2

Prompt user to enter an operation (options: +=1, -=2, \*=3, /=4)

Computer operation if input is 1-4, otherwise reprompt

    IF operation =1

        Compute num1 + num2

        WRITE result

    ELSEIF operation = 2

        Compute num1-num2

        WRITE result

    ELSEIF operation = 3

        Compute num1\*num2

        WRITE result

    ELSEIF operation = 4

        Compute num1/num2

        WRITE result

    ELSE

        Reprompt user for operation (1-4)