# Code/Pseudo Code and Comments (began coding while pseudo coding so don’t have a separate pseudo code skeleton/map)

print("###########################################################################")

print("")

print("Part 1:")

print("This is a python program to add and subtract two numbers.")

print("Inputs are converted to floats and outputs are rounded to 3 decimal places.")

print("")

print("###########################################################################")

print("")

# Return user input and handle bad inputs

def get\_num(index):

try:

match index:

case 1:

number = input("Please enter the first number: ")

case 2:

number = input("Please enter the second number: ")

return float(number)

except:

print("Please enter a valid number")

return get\_num(index)

# add numbers

def add\_numbers(number1, number2):

return number1 + number2

# subtract numbers

def subtract\_numbers(number1, number2):

return number1 - number2

# multiply numbers

def multiply\_numbers(number1, number2):

return number1 \* number2

# divide numbers

def divide\_numbers(number1, number2):

return number1 / number2

# Get user inputs

num1 = get\_num(1)

num2 = get\_num(2)

# do math

sum\_num = add\_numbers(num1, num2)

sub\_num = subtract\_numbers(num1, num2)

print()

print("You entered %s and %s." % (num1, num2))

print("The addition of (%s + %s) is %s." % (num1, num2, round(sum\_num,3)))

print("The subtraction of (%s - %s) is %s." % (num1, num2, round(sub\_num,3)))

print()

print("###########################################################################")

print("")

print("Part 2:")

print("This is a python program to multiply and divide two numbers.")

print("Inputs are converted to floats and outputs are rounded to 3 decimal places.")

print("")

print("###########################################################################")

print("")

# Get user inputs again

num1 = get\_num(1)

num2 = get\_num(2)

# do math

mult\_num = multiply\_numbers(num1, num2)

div\_num = divide\_numbers(num1, num2)

print()

print("You entered %s and %s." % (num1, num2))

print("The multiplication of (%s \* %s) is %s." % (num1, num2, round(mult\_num,3)))

print("The division of (%s / %s) is %s." % (num1, num2, round(div\_num,3)))

print()

# Code/Program Running/Results

A screenshot of a computer program

Description automatically generated

# Public GIT Repository URL

<https://github.com/wheyluhai/csuglobal/tree/main/CSC500-1/Module_1>

A screenshot of a computer

Description automatically generated