Assignment #01 - INPUT, OUTPUT, VARIABLES & CALCULATIONS (Worth 15 points)

RESOURCES NEEDED TO COMPLETE ASSIGNMENT:

- Read Python textbook Chapter 2 Input, Processing, Output, and calculations
- You may Do Practice Exercises in Python textbook [Program 2-8, 2-13, 2-15, 2-24] to you understand the python code.

See <u>LINKS & VIDEOS</u> under CONTENT LINK

PART I: STUDENT QUIZ - PRACTICE EXERCISE (Worth 7 points)

1. Please do the Student Quiz Practice Exercise: (INSTRUCTIONS ARE LOCATED IN WEEK #02)

STUDENT QUIZ AVERAGE PRACTICE EXERCISE

Submit the following from the student Quiz Average exercise in the drop box for Assignment #01 [3 – 5 exercises] (Worth 2.5 points)

LastName_FirstName_A1_Student_Quiz_Average.fprg
LastName_FirstName_A1_Student_Quiz_Average-Flow_Output.txt
or

LastName FirstName A1 Student Quiz Average.vsdx (Visio)

And

LastName_FirstName_A1_Student_Quiz_Average-Python_REVISED.py LastName FirstName A1 Student Quiz Average Python Output REVISED.txt

PART 2: Description for Assignment #01 (Worth 8 points)

TOTAL PURCHASE:

- 2. In the Programming Exercises for Chapter 2 Do Program Exercises #4 (at the end of Chapter 2) "Total Purchases"

 A customer in a store is purchasing five items. Write a program that asks for the price of each item, then displays the subtotal of the sale, the amount of sales tax, and the total. Assume the sales tax is 7 percent.
- 3. Create a flow chart using either FLOWGORITHM or VISIO to outline your logic to solve the program: (worth 2.5 points)

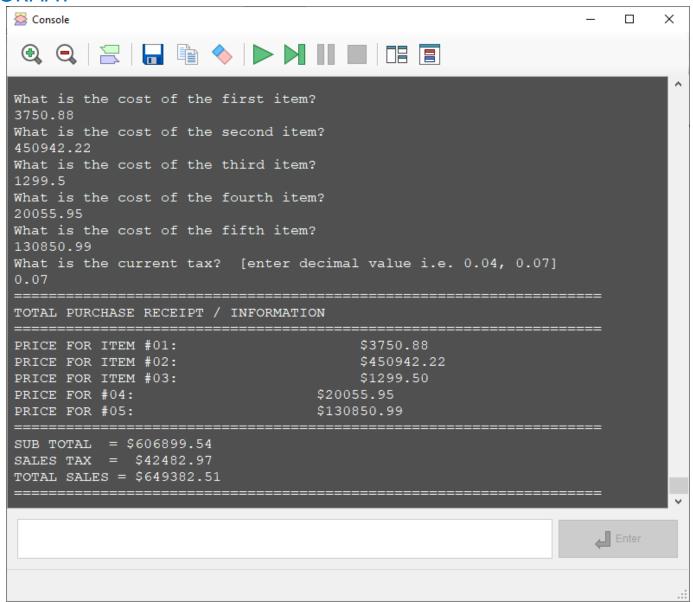
Save as:

LastName FirstName A1 Total Purchase.fprg (flowgorithm)

LastName FirstName A1 Total Purchase.vsdx (Visio)

SAMPLE FLOWCHART OUTPUT [FLOWGORITHM]

CLICK CHAT BUBBLE TO VIEW FLOWGORITHM OUTPUT IN TEXT FORMAT



```
FLOWGORITHM OUTPUT :LastName FirstName AI Student Quiz Average-Flow Output.txt
What is the cost of the first item?
3750.88
What is the cost of the second item?
450942.22
What is the cost of the third item?
1299.5
What is the cost of the fourth item?
What is the cost of the fifth item?
130850.99
What is the current tax? [enter decimal value i.e. 0.04, 0.07]
______
TOTAL PURCHASE RECEIPT / INFORMATION
_____
PRICE #01:
                         $3750.88
PRICE #02: $450942.22
PRICE #03: $1299.50
PRICE #04: $20055.95
PRICE #05: $130850.99
_____
SUB TOTAL = $606899.54
SALES TAX = $42482.97
TOTAL SALES = $649382.51
_____
4. Next, Express the logical design using Python code (worth 7 points)
5. Format the output using either the format function or f' string statement
  so that commas and decimal places will display in the values:
6. Save as:
  LastName FirstName A1 Total Purchase.py
7. Run/Execute the program and save as the output as:
  LastName FirstName A1 Total Purchase Output.txt
```

PYTHON SAMPLE OUTPUT:

Your output should display similar results as follows:

```
Python 3.10.0 (tags/v3.10.0:b494f59, Oct 4 2021, 19:00:18) [MSC v.1929 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
= RESTART: E:\COURSES\FALL 2021\COP1000\SAMPLE PROGRAMS\INPUT-VARIABLES-OUTPUT\Total
Purchases\Parham Prof Total Purchase REVISED.py
What is the cost of the first item?
3750.88
What is the cost of the second item?
450942.22
What is the cost of the third item?
1299.5
What is the cost of the fourth item?
20055.95
What is the cost of the fifth item?
130850.99
What is the current tax? [enter decimal value i.e. 0.04, 0.07]
______
            TOTAL PURCHASE RECEIPT / INFORMATION
______
PRICE #01:
                                         3,750.88
                                        450,942.22
PRICE #02:
                                    $
PRICE #03:
                                    $
                                         1,299.50
PRICE #04:
                                         20,055.95
                                    $ 130,850.99
PRICE #05:
______
                                    $ 606,899.54
SUB TOTAL:
SALES TAX:
                                         42,482.97
                                        649,382.51
TOTAL SALES:
                                    $
______
```

Your layout may be different. However, the content should be the same
SUBMIT THE FOLLOWING FILES inside the designated drop box for Assignment #01:
You will submit 6 to 8 files depending on if you used FLOWGORITHM or VISIO flow chart tool which includes the practice exercises and the Total Purchases results as shown below
LastName_FirstName_A1_Student_Quiz_Average.fprg LastName_FirstName_A1_Student_Quiz_Average-Flow_Output.txt or LastName_FirstName_A1_Student_Quiz_Average.vsdx (Visio) and LastName_FirstName_A1_Student_Quiz_Average-Python_REVISED.py
LastName_FirstName_A1_Student_Quiz_Average_Python_Output_REVISED.txt
LastName_FirstName_A1_Total_Purchase.fprg (flowgorithm) LastName_FirstName_A1_Total_Purchase_flow_output.txt
OR LastName_FirstName_A1_Total_Purchase.vsdx (Visio)
and
LastName_FirstName_A1_Total_Purchase.py LastName FirstName A1 Total Purchase Output.txt