#### CS-175L

#### Fall 2024

#### Lab 2 - Input, Processing, Output

Due: Mon, Jun 17, 2024, 11:30pm

In each Python program that you turn in, add a comment block at the top of each file in this format:

# name of program

# your name

1. Write a program store\_items.py that Create 3 variables, (item1, item2, and item3). Populate the food names to each of the values using input functions.

i.e.. item1 = “fries”

Create variable (taxRate) and assign the variable of 10% (.1)

Create 3 variables (item1Cost, item2Cost and item3Cost).  Use input function to receive the values. Make sure to convert them into appropriate data type.

Create a variable (subTotal) and add the cost of the 3 items by using the variable names of the items cost.

Create a variable (taxAmount) and calculate the cost of the taxes by multiplying the subTotal and taxRate

Create variable (fee) and assign it a value of 2.99

Create a variable (grandTotal) and add the 3 variables together: subTotal, taxAmount and fee

Print each of the food items and their cost for each of the items. 1 line for each item and cost. (make sure you use the variables, not the actual words or values)

i.e. My “burger” is delicious and it cost me $”5”

Print out the subTotal, the taxAmount, the fee and grandTotal on 4 separate lines, indicating what the values represent.

The last line of code should use the variable named (myName) i.e. “*Julia paid the final bill of $15.98*”  (make sure you use the variables, not the actual words or values)

2. Draw the flowchart of the program you just completed.

Flowchart

Start

A

B

DECLARE ITEMS

item1Cost

item2Cost

item3Cost

subTotal

taxAmount

grandTotal

CONSTANTS

myName = “Maggie”

item1 = “Burger”

item2 = “Fries”

item3 = “Tacos”

taxRate = .1

fee = 2.99

Display “My”, item1, “is delicious and it cost me $”, item1cost

Display “My”, item2, “is delicious and it cost me $”, item2cost

SETTING VALUES

subTotal = item1Cost + item2Cost + item3Cost

SETTING VALUES

item3Cost = input()

SETTING VALUES

item2Cost = input()

Display “The subtotal is $”, subTotal

Display “My”, item3, “is delicious and it cost me $”, item3cost

SETTING VALUES

grandTotal = subTotal + taxAmount + fee

SETTING VALUES

taxAmount = subTotal \* taxRate

DIsplay “The tax is $”, taxAmount

SETTING VALUES

item1Cost = input()

B

Display “The fee is $”, fee

A

Display myName, “paid the final bill of $”,grandtotal

End