Name: Sergio Perez

Programming Concepts P1 - Using the **Python Interpreter mode (command line**)

Use screenshot, snapshot, snip… ect to take a snap of your work. Paste answers into this document.

1 You are shopping for clothing at a local store that is having a sale. All items are 25% off. You decide to purchase five items priced at $12.99, $13.99, $25.99, $19, and $69.99. Sales tax is 7%. Use python to figure out the total cost. Write your program below and include a snapshot from python to show your work and answer. \*This does not have to be one continuous program. You can use the different functions you have learned separately.

SALES\_TAX = .07

SALE\_PERCENTAGE = .25

item1 = 12.99 - (12.99 \* SALE\_PERCENTAGE)

item2 = 13.99 - (13.99 \* SALE\_PERCENTAGE)

item3 = 25.99 - (25.99 \* SALE\_PERCENTAGE)

item4 = float(19) - (float(19) \* SALE\_PERCENTAGE) # formating this integer into a floating number

item5 = 69.99 - (69.99 \* SALE\_PERCENTAGE)

pre\_tax\_total = item1 + item2 + item3 + item4 + item5

total\_cost = (pre\_tax\_total \* SALES\_TAX) + pre\_tax\_total

print('Total cost is $', format(total\_cost, '.2f'), sep='')

2 Using python input these phrases, each on their own line. Snapshot your results and insert below.

“Isn’t,” they said.

‘my dog loves to play’

‘”Come over for dinner,” they said’

print('\"Isn\'t,\" they said.')

print('\'my dog loves to play\'')

print('\'\"Come over for dinner,\" they said\'')

3 Using raw strings input this phrase C:\programfiles\user\yourname Insert snapshot of your answer.

print(r'C:\programfiles\user\yourname')

print(r'C:\programfiles\user\sergio')

4 Practice typing in a string literal using the words below. Use the tab key. Try it a few different ways to get the hang of it. After you have completed the string literal notice how using the down arrow you can insert a line hit enter and insert another line using the down arrow, effectively re-entering your string literal without typing it second time. This is helpful when typing multiple lines that are only slightly different allowing you to change just a small portion.

Pancakes: How I love them

-with maple syrup (needs to be warm)

-with chocolate chips (Hershey’s is the best)

print("""\

... Pancakes: How I love them

... -with maple syrup (needs to be warm)

... -with chocolate chips (Hershey's is the best)

... """)

5 Have the following print out as one line in python with only beginning and ending quotes. Insert snapshot. ‘I went to the store to buy pretzels’ ‘while I was at the store I also bought chips and salsa’ (Make sure it is grammatically correct and properly spaced)

print('\'I went to the store to buy pretzels\' \'while I was at the store I also bought chips and salsa\'')

6 Index the word programming. Insert snapshot showing index character 1, 5, 8.

word = 'programming'

print(word[1])

print(word[5])

print(word[8])

7 Index the word programming from the right. Insert snapshot showing index character 1, 5, 8.

word = 'programming'

print(word[1])

print(word[5])

print(word[8])

8 Slicing allows you to obtain substring. Using the same word programming, input to find the following and snapshot your answers below.

Character from beginning to position 2

Characters from position 4 to the end

Character next to the last

Characters from the second-last and including the end

word = 'programming'

print(word[1])

print(word[5])

print(word[8])

9 Use the function that will return the length of a string for the following 3 words: formatting, syntax, and exponential.

10 Using what you have learned in this lesson, create your own written scenario below and then include a snapshot of python that shows your solution. This can be as elaborate or simple as you want it to be. You must incorporate at least 3 different components practiced.