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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’

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

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)

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)

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

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

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.