**Course**: CSC500\_1

**Module & Assignment**: 1 & Critical Thinking Assignment

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**Source Code**

*"""*

*ItemToPurchase class has a default constructor with three parameters*

*initialized with three parameters with default values as none, 0 & 0.*

*The class has two methods,*

*1. add\_print\_list - returns the item name, count and price formatted.*

*This is used by list in the main method that prints*

*all the items to the receipt.*

*2. calculate\_item\_price - returns item\_price by multiplying price and*

*count of items.*

*"""*

class ItemToPurchase:

def \_\_init\_\_(self, item\_name='none', item\_price=0.00, item\_quantity=0):

self.item\_name = item\_name

self.item\_price = item\_price

self.item\_quantity = item\_quantity

def add\_print\_list(self):

return '{:<18} --> {:>6.2f}$'.format(self.item\_name + ' x ' + str(self.item\_quantity), self.item\_price\*self.item\_quantity)

def calculate\_item\_price(self):

return self.item\_price \* self.item\_quantity

if \_\_name\_\_ == '\_\_main\_\_':

# itemList saves all the formatted item, count and item price

# returned from add\_print\_list list

itemList = []

totalCost = 0.00

# This program is designed only for two items

# If needed, we can leverage this program to

# loop for the total number of items

for i in range(0, 2):

print(f'\nEnter item {i+1} details:')

print('-'\*30)

name = input('Enter item name --> ')

price = float(input('Enter item price($) --> '))

quantity = int(input('Enter item quantity --> '))

item = ItemToPurchase(name, price, quantity)

itemList.append(item.add\_print\_list())

totalCost += item.calculate\_item\_price()

"""

Following section prints the receipt by looping the

'itemList' and print the total cost at the bottom using

'totalCost' variable

"""

print()

print('\*' \* 32)

print(' ' \* 12 + 'TOTAL COST')

print('\*' \* 32 + '\n')

for local\_item in itemList:

print(local\_item)

print('-' \* 32)

print('Total {:>22.2f}$'.format(totalCost))

print('-' \* 32)

Output of Code:

