Each day, you will complete this page (assignment will be posted daily)

1. **Paste your code for the summative assignment below.**

```
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# This program will demonstrate an online store which the user can pick from the many options and get the total amount of money back in tax.

"""
This function will take the user's input and determine if it is a valid item in the store menu. If the item is not correctly spelled, or incorrect in any way, the code will continue asking for a valid answer.

   Preconditions:
   item != integer or negative integer
   items must be spelled correctly
   done = code stopping

   Returns:
   the total price of the shopping cart items in the costumer's basket
"""

#item names stored with prices and options
item_prices = {
   "Milk": {"2%": 4.32, "3.25%": 4.32},
   "Bread": {"Regular": 2.50},
   "Water": {"Regular": 30.00},
   "Eggs": {"A Dozen": 3.87},
   "Butter": {"Regular": 3.42},
   "Oil": {"Olive oil": 5.60, "Avocado oil": 5.60},
   "Yogurt": {"Regular": 3.43},
   "Coke": {"20 cans": 23.00, "Jug": 5.00}
}

total = 0.00

#Display available items/introduction
print("Welcome to MooMoo's Magic Mart!")
print("Here are the available items:")
print("- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -")
print('\n'.join(item_prices))  # joins all items into one string
print("- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -")
print("What would you like to add to your cart?")
print("Enter 'stop' to proceed to check-out!")

#When the stop_flag is not false (true), continue.
stop_flag = False
while not stop_flag:
   print("- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -")
   cart = input("Add to Cart: ")
#when stop_flag is true (not true), skip code and go to outer print statement
   if cart.lower() == "stop":
      stop_flag = True
   else:
```

```
    found_item = False
    for item in item_prices: #item stored in the prices
        if cart.capitalize() == item:
            found_item = True #when an item is in the item_prices, code will continue.

    if not found_item:
        print("Invalid Item") #if item is not in item_prices, code will print invalid item.

    if cart.capitalize() == "Milk":
        print("Which milk?")
        print("2% or 3.25%?")
        print("- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -")
        milk_type = input("Select the milk type: ")
        while milk_type not in item_prices["Milk"]: #when milk type (2% or 3.25%) not in item prices, print statement.
            print("- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -")
            print("Invalid milk type")
            milk_type = input("Select the milk type: ")

        print("- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -")
        quantity = float(input("How much milk do you need?: "))
        #item prices in milk for the milk type.
        milk_price = item_prices["Milk"][milk_type]
        #stored in the total variable with the milk price * how much the customer wants
        total += milk_price * quantity

    elif cart.capitalize() == "Bread":
        print("- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -")
        bread_type = "Regular" #type in the variable
        quantity = float(input("How much bread do you need?: "))
        bread_price = item_prices["Bread"][bread_type] #in item prices, pick the bread and bread types price which is
stored in regular
        total += bread_price * quantity

    elif cart.capitalize() == "Water":
        print("- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -")
        water_type = "Regular" #type in the variable
        quantity = float(input("How much water do you need?: "))
        water_price = item_prices["Water"][water_type] #in item prices, pick the water and water types price which is
stored in regular
        total += water_price * quantity

print("- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -")
#prints total and the exact amount of money rounded to the nearest 2nd digit
print("Total: $", round(total, 2))
```

2. **Detail what you added today.**

In my code today, I started off by rewriting my code so that it works cleaner and looks less messy. What i did is that, i made it so that all my code for the variables are under one loop. This ensures that each item can be added to the cart without having to do any additional code. The while loop stores information on everything, meaning the loop goes on until ‘stop’ is written. After this loop using true and false, I fixed the code for the ilk. I wanted to make sure it had if statements in it as well as a while loop, in the part of milk. I also used loops to store the amount of money and the type of milk which is chosen. After, I added the total price which will start off as $0 but be added when the price of the variable is multiplied by how much the customer needs. Since I had this structure, it was easier for me to make the next two parts about bread and water. They are the same thing, just don't have the question about which type of item is available, as it only has one option stored. At the end of the code, I added a statement where the total amount will be printed, which is rounded to 2 decimal places.

3. **Provide details for at least two coding items you plan to work on next class.**

- I would like to add to the program if they would like to see the prices, as mine don't show
- I also need to add tax to each item
- I need to add more products into the code (this can be done fast as i already have the basic structure of the code, id just need to change the variables and names)