

Midterm Lab Task 4

Using Dictionary Collections

Problem 1. Create the following UI for menu items: then allow the user to input orders

```
----- MENU -----
pizza      : $3.00
nachos     : $4.50
popcorn    : $6.00
fries      : $2.50
chips      : $1.00
pretzel    : $3.50
soda       : $3.00
lemonade   : $4.25
-----
Select an item (q to quit): pizza
Select an item (q to quit): soda
Select an item (q to quit): q
----- YOUR ORDER -----
pizza soda
Total is: $6.00

Process finished with exit code 0
```

The user will continue to input orders until q is typed to quit. Then display the summary of orders with the total bill.

1. Use a dictionary(for the menu) and List(for the orders in the cart) 2.
- Users may input the same item in the cart.
3. Follow the exact format and whitespace for the menu
4. User input should be case insensitive
5. If the user inputted an item not in the Menu – it will not include it in the cart and display “Not Available” and input another item
6. Create a MENU with 10 items and assign prices in Peso (php) - You may choose what items you would like to put in your cart

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LabTask #4: Using Dictionary Collections

```
1 def show_menu(menu): 1 usage
2     print("=== Welcome to the Ordering System ===")
3     print("Here is our MENU:\n")
4     for item, price in menu.items():
5         print(f"item:<15} P{price}")
6     print("\nType the item/s you want to order.\n")
7
8
9 def take_orders(menu): 1 usage
10     cart = [] #List for storing items
11     while True:
12         choice = input("Select an item (q to quit): ").strip().lower() #.strip() to remove white space .lower() to lowercase choice
13         if choice == "q":
14             break
15         if choice in menu:
16             cart.append(choice)
17         else:
18             print("Not Available")
19     return cart
20
```

```
21
22 def show_summary(cart, menu): 1 usage
23     print("\n=== Your Order Summary ===")
24     if cart:
25         total = 0
26         for item in set(cart):
27             qty = cart.count(item)
28             subtotal = menu[item] * qty
29             print(f"item:<15} x{qty} = P{subtotal}")
30             total += subtotal
31         print(f"\nTotal Bill: P{total}")
32     else:
33         print("No items ordered.")
34     print("Thank you for ordering!")
35
```

```
36
37 def main(): 1 usage
38     menu = { #DICTIONARY COLLECTIONS
39         "burger": 80,
40         "fries": 50,
41         "pizza": 150,
42         "hotdog": 40,
43         "spaghetti": 100,
44         "fried chicken": 120,
45         "ice cream": 60,
46         "softdrinks": 30,
47         "coffee": 40,
48         "sandwich": 70
49     }
50
51     show_menu(menu)
52     cart = take_orders(menu)
53     show_summary(cart, menu)
54
55
56 # RUN PROGRAM
57 main()
58
```

=== Welcome to the Ordering System ==
Here is our MENU:

burger	₱80
fries	₱50
pizza	₱150
hotdog	₱40
spaghetti	₱100
fried chicken	₱120
ice cream	₱60
softdrinks	₱30
coffee	₱40
sandwich	₱70

Type the item/s you want to order.

Select an item (q to quit): *HOTDOG*

Select an item (q to quit): *pIzza*

Select an item (q to quit): *FrIeS*

Select an item (q to quit): *q*

=== Your Order Summary ===

hotdog x1 = ₱40

pizza x1 = ₱150

fries x1 = ₱50

Total Bill: ₱240

Thank you for ordering!