

Calma, Michael Vincent L.

C204

Problem 1. Using List Collection type. Create a program that will allow the user to perform the following functions: (add, update, search, delete, display, and sort) items in a list:

```
1
2
3 item = []
4 choice = None
5 proceed = None
6 def menu():
7     while True:
8         print("\n")
9         print("Welcome to 700P shopping cart")
10        print("-----")
11        print("1. Add Item: ")
12        print("2. Search Item: ")
13        print("3. Remove an Item: ")
14        print("4. View All Item: ")
```

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```
15    print("5. Exit: ")
16
17    choice = input("Enter choice: ")
18    if choice == "1":
19        proceed = "1"
20        while proceed != "0":
21            newItem = input("Enter Item: ").upper()
22            item.append(newItem)
23            proceed = input("\nEnter 0 to Exit 1 to enter another item: ")
24            if proceed == "0":
25                choice = None
26                proceed = None
27                break
28        else:
```

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```
29        proceed = None
30
31
32    elif choice == "2":
33        while True:
34            counter = 0
35            search = input("Enter Item Search: ").upper()
36            for i in item:
37                if search == i:
38                    counter +=1
39
40            if counter == 0:
41                print("Item not found")
42                break
43    ..
```

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```
43
44
45    else:
46        print(f"\nItem found: {search}")
47        print(f"number of {search}: ", counter)
48        print("\n")
49        proceed = input("\nEnter 0 to proceed to Menu, 1 to search another item: ")
50        if proceed == "1":
51            proceed = None
52            search = None
53
54        if proceed == "0":
55            break
56    elif choice == "3":
```

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```

57
58     while True:
59         itemMatch = 0
60         remove = input("Enter Item to Remove: ").upper()
61         for i in item:
62             if remove == i:
63                 item.remove(remove)
64                 itemMatch += 1
65
66         if itemMatch > 0:
67             print(f"Item removed: {remove} \n")
68             proceed = input("\nEnter 0 to proceed to Menu, 1 to remove another item: ")
69
70             if proceed == "1":

```

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```

71         proceed = None
72
73         elif proceed == "0":
74             choice = None
75             proceed = None
76             break
77
78         if itemMatch == 0:
79             print("Item not found")
80             break
81
82     elif choice == "4":
83         if len(item) == 0:
84             print("Cart is Empty")

```

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```

85     else:
86         for i in item:
87             print(f"{i}")
88             print("\n")
89             choice = None
90
91             input("press any key to continue")
92
93     elif choice == "5":
94         exit()
95
96     else:
97         print("Invalid choice")
98

```

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```

88         print("\n")
89         choice = None
90
91         input("press any key to continue")
92
93     elif choice == "5":
94         exit()
95
96     else:
97         print("Invalid choice")
98
99
100 menu()
101

```

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**Output:**

Running Python 



Output

```
Welcome to 700P shopping cart
```

```
-----
```

1. Add Item:
2. Search Item:
3. Remove an Item:
4. View All Item:
5. Exit:

```
Enter choice:
```

>>> Input

---