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C203
Midterm Lab Task 3. Using List Collections

Code:

```python
List = []

def show_menu():
    print("[Menu Options]\n")
    print("1 - Add Items")
    print("2 - Search for an item")
    print("3 - Remove an item")
    print("4 - View all items (sorted)")
    print("0 - Exit Program")


def additem():
    while True:
        item = input("Enter Item (Press x to exit): ")
        if item.lower() == 'x':
            break
        List.append(item)


def searchitem():
    item = input("Enter Item: ")
    if item in List:
        print("Found")
        count = List.count(item)
        print(f"{item} found {count}x in the list")

    else:
        print("Not found")


def removeitem():
    item = input("Enter Item: ")
    if item in List:
        print("Item found and removed")
        List.remove(item)
    else:
        print("Item not Found and deletion unsuccessful")


def viewitem():
    List.sort()
    print(List)
```

```
choice = None
while choice != '0':
    show_menu()
    choice = input("Pick one [0 to quit]: ")

    if choice == '1':
        additem()
    elif choice == '2':
        searchitem()
    elif choice == '3':
        removeitem()
    elif choice == '4':
        viewitem()
```

Output:

```
[Menu Options]

1 - Add Items
2 - Search for an item
3 - Remove an item
4 - View all items (sorted)
0 - Exit Program
Pick one [0 to quit]: 1
Enter Item (Press x to exit): Hello
Enter Item (Press x to exit): Burget
Enter Item (Press x to exit): x
[Menu Options]

1 - Add Items
2 - Search for an item
3 - Remove an item
4 - View all items (sorted)
0 - Exit Program
Pick one [0 to quit]: 2
Enter Item: Hello
Found
Hello found 1x in the list
[Menu Options]

1 - Add Items
2 - Search for an item
3 - Remove an item
4 - View all items (sorted)
0 - Exit Program
Pick one [0 to quit]: 3
Enter Item: Burget
Item found and removed
```

```
[Menu Options]

1 - Add Items
2 - Search for an item
3 - Remove an item
4 - View all items (sorted)
0 - Exit Program
Pick one [0 to quit]: 4
['Hello']
[Menu Options]

1 - Add Items
2 - Search for an item
3 - Remove an item
4 - View all items (sorted)
0 - Exit Program
Pick one [0 to quit]: 0

Process finished with exit code 0
```