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C204

Midterm Lab Task 3 - Python List Collections

Source:

```
items = []
```

```
def add_items():
```

```
    while True:
```

```
        item = input("Enter item to add (x to stop): ")
```

```
        if item.lower() == "x":
```

```
            break
```

```
        items.append(item)
```

```
    print("Items successfully added!\n")
```

```
def search_item():
```

```
    item = input("Enter item to search: ")
```

```
    if item in items:
```

```
        count = items.count(item)
```

```
        print(f"'{item}' found! It appears {count} time(s) in the list.\n")
```

```
    else:
```

```
        print(f"'{item}' not found in the list.\n")
```

```
def remove_item():
```

```
    item = input("Enter item to remove: ")
```

```
    if item in items:
```

```
        items.remove(item)
```

```
        print(f"Item '{item}' found and deleted.\n")
```

```
    else:
```

```
        print(f"Item '{item}' not found - deletion unsuccessful.\n")
```

```

def view_items():
    if not items:
        print("The list is empty!\n")
        return
    print("Choose sorting option:")
    print("1 - Ascending (A-Z)")
    print("2 - Descending (Z-A)")
    choice = input("Enter choice: ")

    if choice == "1":
        sorted_items = sorted(items)
    elif choice == "2":
        sorted_items = sorted(items, reverse=True)
    else:
        print("Invalid choice. Showing unsorted list.\n")
        sorted_items = items

    print("Items in the list:")
    for i, item in enumerate(sorted_items, 1):
        print(f"{i}. {item}")
    print()

# Main Menu
while True:
    print("[ MENU OPTIONS ]")
    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")
```

```
option = input("Pick one [0 to quit]: ")
```

```
if option == "1":
```

```
    add_items()
```

```
elif option == "2":
```

```
    search_item()
```

```
elif option == "3":
```

```
    remove_item()
```

```
elif option == "4":
```

```
    view_items()
```

```
elif option == "0":
```

```
    print("Exiting program... Goodbye!")
```

```
    break
```

```
else:
```

```
    print("Invalid option. Please try again.\n")
```

```
[ 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 to add (x to stop): itlog
Enter item to add (x to stop): hatdog
Enter item to add (x to stop): pancit canton
Enter item to add (x to stop): x
Items successfully added!

[ 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 to remove: itlog
Item 'itlog' found and deleted.

[ 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 to search: hatdog
'hatdog' found! It appears 1 time(s) 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]: 4
Choose sorting option:
1 - Ascending (A-Z)
2 - Descending (Z-A)
Enter choice: 2
Items in the list:
1. pancit canton
2. hatdog
```

```
[ 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
Choose sorting option:
1 - Ascending (A-Z)
2 - Descending (Z-A)
Enter choice: 1
Items in the list:
1. hatdog
2. pancit canton
```

```
[ 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
Exiting program... Goodbye!
```