Midterm Lab Task 3 List Collections

Problem 1. Using the 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:

You are free to decide what data you will be storing in the list and name the list based on the type of data you wish to store.

[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]:	_
Requirements:					

- 1. The user can add items in the list until the user presses x to stop
- The user should be able to perform search if an item exists Display if found or not found and count the number of instance in the list.
- The user should also be given the option to remove an item in the list Display the Message "Item found and deleted" once deletion is performed – else display "item not found-deletion unsuccessful"
- The user may also opt to view items in the list and display items sorted in Ascending order
- 5. The user may opt to exit the program by typing 0

Note: you are free to design the interface of the program, base on the Menu options shown.

CODE:

1st OUTPUT:

2nd OUTPUT:

```
C:\Users\COMLAB\AppCata\Local\Programs\Python\Python311\python.exe C:\Users\COMLAB\PycharmProjects\py

[ MENU SPTIONS ]

1 - Add Items
2 - Search for an Item
3 - Remove an Item
4 - View all items (Sected)
0 - Exit program

Pick one [0 to quit]: |
Enter item to add (x to stop): Forece
Enter item to add (x to stop): Noticed Enter item item is add (x to stop): Noticed Enter item is add (x to stop): Noticed E
```

```
[ 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: France
Item 'France' 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]: 6
Items in the list (sorted): - Britain
- Germany
- United Kingdom

[ MENU OPTIONS ]
1 - Add Items
2 - Search for an Item
3 - Remove an Item
4 - View all items
5 - Search for an Item
5 - Remove an Item
6 - View all items
7 - Remove an Item
8 - View all items (Sorted)
9 - Exit program

Pick one [0 to quit]: 6
Exiting program. Goodbye!

Process finished with exit code 0
```