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:

Sample Code:

```
item = []
 def adding(item):
      print("\nAdd Store Products (Type 'x' to stop):")
while True:
              product = input("Enter the product name: ")
if product.lower() == "x":
       break
item.appen((product))
print("Product successfully added.")
return item
def searching(item):
    product = input("Enter the product to be searched: ")
    count = item.count(product)
       count = item.count(product)
if product in item:
    print("Product Found.")
    print(f"Total instances of '{product}': {count}")
      else:
    print("Product Not Found.")
return item
def removing(item):
    product = input("Enter the product to be removed: ")
    if product in item:
        item remove(product)
             print("Product Found and Deleted.")
      print("Product Not Found - Deletion Unsuccessful.")
return item
def viewing(item):
    choice = input("Sort Products\n1. Alphabetically (A-Z)\n2. Reverse Alphabetically (Z-A)\nEnter your choice: ")
      if choice
      sorted_items = s
elif choice == "2":
            sorted_items = sorted(item, reverse=True)
       sorted_items = sorted(item)
print("\n--- YOUR PRODUCTS ---")
for product in sorted_items:
            print(f" - {product}")
      return item
```

Sample Output:

```
----PRODUCT STORAGE-----
 [MENU]
  1 - Add items
| 2 - Search for an item
| 3 - Remove an item
 4 - View all items
| 0 - Exit program
Pick one (0 to quit): 1
Add Store Products (Type 'x' to stop):
Enter the product name: apple
Product successfully added.
Enter the product name: mango
Product successfully added.
Enter the product name: orange
Product successfully added.
Enter the product name: bayabas
Product successfully added.
Enter the product name: kamias
Product successfully added.
Enter the product name: carrot
Product successfully added.
Enter the product name: x
```

```
-PRODUCT STORAGE--
 [MENU]
 1 - Add items
| 2 - Search for an item
| 3 - Remove an item
| 4 - View all items
0 - Exit program
Pick one (0 to quit): 2
Enter the product to be searched: sili
Product Not Found.
  -----PRODUCT STORAGE----
[MENU]
| 1 - Add items
| 2 - Search for an item
| 3 - Remove an item
| 4 - View all items
| 0 - Exit program
Pick one (0 to quit): 2
Enter the product to be searched: kamias
Product Found.
Total instances of 'kamias': 1
```

```
-PRODUCT STORAGE-
[MENU]
| 1 - Add items
| 2 - Search for an item
| 3 - Remove an item
| 4 - View all items
| 0 - Exit program
Pick one (0 to quit): 4
Sort Products

    Alphabetically (A-Z)

Reverse Alphabetically (Z-A)
Enter your choice: 1
 -- YOUR PRODUCTS ---

    apple

    carrot

    kamias

    mango

  orange
```