PYTHON Code Syntropy (SRAKIB17)

Assignment 01

Assignment: Online Store Inventory Management using Lists

Create a Python program that simulates an online store inventory management system using lists. The program should do the following:

1. Define two separate lists: one for item names and another for corresponding quantities available. Example:

```
item_names = ['Laptop', 'Headphones', 'Keyboard', 'Mouse']
item_quantities = [10, 20, 15, 30]
```

2. Display the inventory with options for the user to view items, add new items, remove items, or update item quantities.
    - Viewing items should display all available items with their quantities.
    - Adding items should prompt the user to input a new item and its quantity to add to the inventory.
    - Removing items should allow the user to remove an item by specifying its name.
    - Updating item quantities should allow the user to modify the quantity of a specific item.
3. Implement a shopping cart system using lists where a user can select items from the inventory to purchase.
    - Allow the user to add items to the cart by specifying the item's index and quantity.
    - Calculate the total cost of items in the cart.
4. Implement a checkout process where the user finalizes their purchase, deducting the purchased items' quantities from the inventory.

Example usage might look like:

```
1. View Inventory
2. Add Item
3. Remove Item
4. Update Item
5. Add to Cart
6. View Cart
7. Checkout
8. Exit
```

This simplified assignment focuses on managing two lists (item names and quantities), implementing basic inventory operations (add, remove, update), and simulating a shopping cart experience using lists. Students will practice using lists, loops, functions, and conditional statements while creating an inventory management system. Adjust the complexity or add more features based on the students' level and learning objectives.