

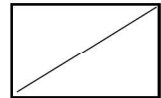
Create an inventory management system that uses encapsulation concepts. This project should allow users to manage items in a store's inventory. These includes: Add Item, Update Item (either Quantity or Price), Remove Item, Display Items by Category, Display All Items, Search Item, Sort Items (either by Quantity or Price, and Ascending or Descending), and Display Low Stock Items. Each item should have details like ID, name, quantity, and price.

Your C++ file must be put in GitHub. Submit here the repository link. The repository name is: midterm-project-oop.

There will be an individual presentation of your project after your midterm examination and CITE Week.

Requirements:

- **Add Item**
 - productID(int) Auto Increment when a new product is been added.
 - Name (string), Quantity (int), Price (float / double)
 - After input, it should display 'Item added successfully!'
- **Update Item**
 - Input productID first
 - If ID is found, user will input if quantity or price, then input the new value. Then display 'Quantity / Price of Item <name> is updated from <old-value> to <new-value>'
 - If ID is not found, display 'Item not found!'
- **Remove Item**
 - Input productID
 - If ID is found, display 'Item <name> has been removed from the inventory'
 - If ID is not found, display 'Item not found!'
- **Display All Items**
 - Displays the items in a table format (product ID, Name, Quantity, Price, Category are the columns)
- **Search Item**
 - Input productID
 - If ID is found, display the item details
 - If ID is not found, should display 'Item not found!'
- **Sort Items**
 - Input if sort by quantity or price, then input if ascending or descending
 - Display the items in a table format (productID, Name, Quantity, Price are the columns)
- **Display Low Stock Items**
 - Display all the items that has a quantity of 5 and below



- It should be displayed in a table format (ID, Name, Quantity, Price, Category are the columns)

- **Exit**

Sample Menu should look like this:

Menu

- 1 - Add Item
- 2 - Update Item
- 3 - Remove Item
- 4 - Display All Items
- 5 - Search Item
- 6 - Sort Items
- 7 - Display Low Stock Items
- 8 - Exit