



Computer Engineering Department
Object Oriented Programming (10636212)

HW 2 [ILO2]

Due to 12/04/2020

In this assignment, you will implement a program to keep an updated inventory for a local store. Each product will have a unique code (**barcode**) to identify itself. By using this code, the user should be able to retrieve and update information on product, such as the name of the product, the price, and how many are currently in stock.

Define a class called **Product** with the following private fields:

- **barcode** : String
 - **name**: String
 - **price**: Double Number
 - **quantity**: Integer number
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- You should provide the required constructors in addition to the set and get public methods to manipulate the private fields.
 - Similar to the first homework, your program should keep the updated information for all products in an ArrayList.
 - The user can search the available products using a keyword based on **barcode** or **name**.
 - By using this **barcode**, the user should be able to update the other fields (name, price, quantity).

To provide the required features, design a GUI application similar to the following GUI as shown in the figure:

Store Inventory

NEW PRODUCT

Barcode	Product Name	Price	Quantity
<div>Insert</div>		<div>Clear</div>	

SEARCH PRODUCT BY

☒ Barcode

☐ Product Name

Find

UPDATE PRODUCT

Barcode

Product Name

New Value:

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