

## CSE3003 OBJECT ORIENTED PROGRAMMING

(Fall 2022- 2023)

---

### Lab Exercise 05: Classes

**Q1.** Implement the class given in the diagram below. Make the necessary function definitions. You are expected to write a program that will be processed according to the menu in the sample outputs. You must perform these operations using the class you defined.

**Option 1:** The user should be asked all the information one by one. The user must enter the product information in order.

**Option 2:** User must enter a new stock information to update stock. Necessary updates should be made according to entered stock.

**Option 3:** The user must enter a new price information to update the price. Accordingly, necessary updates should be made.

**Option 4:** Only the code of the product should be shown to the user.

**Option 5:** All information of the product should be shown to the user.

**Option 6:** Exit the program.

You should restrict the user to select other options without entering any product information. If there is no product, nothing can be updated or displayed.

**Important Note:** Do not share your solution with others! Do not collaborate with each other! You have to do your assignment by yourself. Otherwise, your submission will not be evaluated and both you and the person that you get the file from will get zero points from the assignment.

Product
-productCode : string -brand : string -price :double -name : string -stock :int
+Product() +Product(string,string,double,string,int) +getProductCode() :string +setProductCode(string) +getBrand() :string +setBrand(string) +getPrice() :double +setPrice(double) +getName() :string +setName(string) +getStock() :int +setStock(int) +display()

Sample Outputs:

```
*****
1.Enter product information
2.Update stock
3.Update price
4.Display product Code
5.Display all info
6.Exit
*****
--->_
```

**Important Note:** Do not share your solution with others! Do not collaborate with each other! You have to do your assignment by yourself. Otherwise, your submission will not be evaluated and both you and the person that you get the file from will get zero points from the assignment.

```

*****
1.Enter product information
2.Update stock
3.Update price
4.Display product Code
5.Display all info
6.Exit
*****
--->1
Enter product code:54874
Brand: A
Name:Dress
Price: 540
Stock:5
*****
1.Enter product information
2.Update stock
3.Update price
4.Display product Code
5.Display all info
6.Exit
*****
--->

```

```

*****
1.Enter product information
2.Update stock
3.Update price
4.Display product Code
5.Display all info
6.Exit
*****
--->2
Update stock :4
*****
1.Enter product information
2.Update stock
3.Update price
4.Display product Code
5.Display all info
6.Exit
*****
--->

```

**Important Note:** Do not share your solution with others! Do not collaborate with each other! You have to do your assignment by yourself. Otherwise, your submission will not be evaluated and both you and the person that you get the file from will get zero points from the assignment.

```
*****
1.Enter product information
2.Update stock
3.Update price
4.Display product Code
5.Display all info
6.Exit
*****
-->5
Product Code: 54874
Brand: A
Price: 540
Name: Dress
Stock:4
*****
1.Enter product information
2.Update stock
3.Update price
4.Display product Code
5.Display all info
6.Exit
*****
-->
```

**Important Note:** Do not share your solution with others! Do not collaborate with each other! You have to do your assignment by yourself. Otherwise, your submission will not be evaluated and both you and the person that you get the file from will get zero points from the assignment.