

OBJECT ORIENTED PROGRAMMING

QUIZ 01

Trendyol-like e-commerce scenario

Question 1: A simple product management system for an e-commerce platform

Create a simple product management system for an e-commerce platform. Complete the following tasks:

Assume that company sales only one technological product that is smart watch. A client takes from technological products 10 smart watches. Every smart watch price is 87.55 dolar. Take inputs for product information from the user, such as product name and quantity. Calculate the total amount the customer must pay and prints it on the screen by creating a method. If the client approves this final price, ask the user for the IBAN number, address and send the product by creating a method.

Instructions:

Complete the following tasks:

Product Class: Create a `Product` class that takes the product name and product quantity as input from the user. Hence, it stores product information and manages product-related transactions. And it should display the product information....etc. if necessary other methods, you can create here.

- `displayProductInfo()`: Displays the product information.
- 2. **ShoppingBasket Class:** E-Commerce Shopping Basket class manages issues the products that the user will receive, such as complete the payment process, subtract product from the stock and displays the amount on the screen. It should also performs stock reduction operations.etc. if necessary other methods, you can create here.
 - `reduceStock(int quantity)`: Decreases the stock quantity and returns a message if there is insufficient stock.
- 3. **Main Class:** Receives data from the user, creates related objects and performs shopping.etc. if necessary other methods, you can create here.

Notes: Assume that IBAN consists of 16 digit numbers and that the payment transaction is completed succesfully without any errors. You can accept everything else as you wish.

Good Luck

Assist. Prof. Dr. Sevcan KAHRAMAN