Weekly Test – 07

Mini Project

Write a Python program for an `Online Shopping System` that has default available products are `Laptop, Headphones, SamsungS22, Shirt, Pant, Apple, Banana, Papaya`. This project is mainly about the only shopping, user has to purchase some products based on need and he/she has to add the required products to cart and place an order and can also perform update, remove, clear the cart. At last, user can place an order and would be getting an invoice in the text format, for each product per quantity with 10% GST (0.1) with the total amount in the invoice. Write python code using classes and Exceptions.

Detailed Explanation:
As soon as the module execute below option should be visible perform.

```
----------------------> Start the shopping <---------------------
                    1. Add item to cart
                    2. Remove item from cart
                    3. View cart
                    4. Update item quantity
                    5. Clear cart
                    6. Place order
                    7. Exit
Enter your choice:
```

User has to enter the choice number **Ex. 1** (`Add item to cart`) then return available products to add to cart.

```
Available products to Add to cart :
                    1. Laptop - 1N = 40000
                    2. Headphones - 1N = 3000
                    3. SamsungS22 - 1N = 82000
                    4. Shirt - 1N = 600
                    5. Pant - 1N = 1200
                    6. Apple - 1N = 50
                    7. Banana - 1N = 10
                    8. Papaya - 1N = 60
Enter the product number from above : 3
Enter the product quantity: 3
```

User has to choose which product want to add to cart from the available products.
Ex. 3 then the program should ask the quantity to add to cart. So, from the above shown user wants to add the product `SamsungS22` product with `quantity 3.` If user wants to add the same product adding to cart multiple times identify the product and the update the product quantity instead of adding another entry in the cart.

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1. If user wants to remove the product from cart, then ask product name which want to remove and remove only user entered product from the cart.

```
Items in your cart:
SamsungS22 - $82000, Warranty: 18 months, x 3
Shirt - $600, Size: Medium, x 4
Laptop - $40000, Warranty: 12 months, x 1

----------------------> Start the shopping <----------------------
                       1. Add item to cart
                       2. Remove item from cart
                       3. View cart
                       4. Update item quantity
                       5. Clear cart
                       6. Place order
                       7. Exit
Enter your choice: 2
Enter the name of the product to remove: Shirt
```

2. If user wants to update any product which is already available in cart, then ask product name and quantity as the input and update the product quantity as per user input.

```
----------------------> Start the shopping <----------------------
                       1. Add item to cart
                       2. Remove item from cart
                       3. View cart
                       4. Update item quantity
                       5. Clear cart
                       6. Place order
                       7. Exit
Enter your choice: 4
Enter the name of the product to update quantity: SamsungS22
Enter the new quantity: 2
Quantity of SamsungS22 updated to 2.
```

3. Now user is ready to with products to place the order then user must enter the choice number 6 then only the order will be place.
   a. The program should ask to user to enter the `customer_name` and `phone_number` to add in invoice.
   b. Validate `customer_name` and `phone_number`. Customer name should contain only upper, lower alphabets and spaces. Phone Number should contain only 10 digits number and `0` or `91` are the optional numbers at starting of the phone number.
   c. Post successful validation of `customer_name` and `phone_number`, the program should ask to user for invoice file name so that the invoice will be generated with user given file name. The file name should not be empty for generating the invoice.
   d. As soon as user entered file name, the order will be placed and generate the invoice and clear the cart.

   Invoice Details:
   Customer Name: User name accepted as input
   Phone Number: Customer Phone Number
   Date: Default Date when the order placed

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NOTE: The sample invoice is attached in the test with the name is **invoice.txt**.

4. If user wants to exit then choice number should be 7 then the program should come out from the execution.

Note: The requirement explanation available in the below link

------------------------------> https://youtu.be/_2ZSTNf5mLI?si=kvmyQpKwt-8YO8s3 <-------------------------------

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