66_Lavanya

Assignment 01

```python
class Product:
    def __init__(self, name, price, stock):
        self.name = name
        self.price = price
        self.stock = stock

    def update_stock(self, quantity):
        self.stock += quantity

    def display_details(self):
        print(f"Product: {self.name}, Price: ${self.price}, Stock: {self.stock}")

class Store:
    def __init__(self):
        self.products = {}

    def add_product(self):
        name = input("Enter product name: ")
        price = float(input("Enter product price: "))
        stock = int(input("Enter product stock: "))
        product = Product(name, price, stock)
        self.products[name] = product
        print("Product added successfully!")

    def update_product_stock(self):
        name = input("Enter product name to update: ")
        if name in self.products:
            quantity = int(input("Enter quantity to add/remove: "))
            self.products[name].update_stock(quantity)
            print("Stock updated successfully!")
        else:
            print(f"Product '{name}' not found.")

    def display_product(self):
        name = input("Enter product name: ")
        if name in self.products:
            self.products[name].display_details()
        else:
            print(f"Product '{name}' not found.")

    def show_menu(self):
        while True:
            print("\n---- Store ----")
            print("1. Add a new product")
            print("2. Update product stock")
```

```python
            print("3. Display product details")
            print("4. Exit")
            choice = input("Enter your choice (1-4): ")

            if choice == '1':
                self.add_product()
            elif choice == '2':
                self.update_product_stock()
            elif choice == '3':
                self.display_product()
            elif choice == '4':
                print("Exiting the system. Goodbye!")
                break
            else:
                print("Invalid choice. Please try again.")

store = Store()
store.show_menu()
```

```
---- Store ----
1. Add a new product
2. Update product stock
3. Display product details
4. Exit

Enter your choice (1-4):  1
Enter product name:  Laptop
Enter product price:  999.99
Enter product stock:  10

Product added successfully!

---- Store ----
1. Add a new product
2. Update product stock
3. Display product details
4. Exit

Enter your choice (1-4):  2
Enter product name to update:  Laptop
Enter quantity to add/remove:  -2

Stock updated successfully!

---- Store ----
1. Add a new product
2. Update product stock
3. Display product details
4. Exit
```

```
Enter your choice (1-4):  3
Enter product name:  Laptop

Product: Laptop, Price: $999.99, Stock: 8

---- Store ----
1. Add a new product
2. Update product stock
3. Display product details
4. Exit

Enter your choice (1-4):  4

Exiting the system. Goodbye!
```