**Name:** Vedant Raut , **Roll No.:** 66

**Code:**

class Product:

    def \_\_init\_\_(self, name, price, stock):

*self*.name: str = name

*self*.price: float = price

*self*.stock: int = stock

    def update\_stock(self, quantity):

*self*.stock += quantity

    def \_\_str\_\_(self):

        return f"Product: {*self*.name}, Price: ${*self*.price:.2f}, Stock: {*self*.stock}"

*# Dictionary to store products*

products = {}

while True:

    print("\nMENU\n1. Add Product\n2. Update Stock\n3. View Product Details\n4. Exit System")

    choice = input("Enter your choice: ")

    if choice == '1':

        name = input("Enter product name: ")

        price = float(input("Enter product price: "))

        stock = int(input("Enter product stock: "))

        products[name] = Product(name, price, stock)

        print("Product added successfully!")

    elif choice == '2':

        name = input("Enter product name to update: ")

        if name in products:

            quantity = int(input("Enter quantity to add/remove (positive to add, negative to remove): "))

            products[name].update\_stock(quantity)

            print("Stock updated successfully!")

        else:

            print("Product not found.")

    elif choice == '3':

        name = input("Enter product name: ")

        if name in products:

            print(products[name])

        else:

            print("Product not found.")

    elif choice == '4':

        print("Exiting the system. Goodbye!")

        break

    else:

        print("Invalid choice. Please try again.")

**Output:**





