PANKAJ BHANDARI-05

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

    def add_product(self):
        print(f"Product {self.name} added with price ${self.price} and
stock {self.stock}.")
        print('Product added successfully')

    def update_stock(self, quantity):
        self.stock += quantity
        print(f"Stock updated. New stock: {self.stock}")

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


def main():
    products = []  # List to store multiple products

    while True:
        print("\nMenu:")
        print("1. Add Product")
        print("2. Update Product Stock")
        print("3. View Product Details")
        print("4. Exit")

        choice = input("Enter your choice (1/2/3/4): ")

        if choice == '1':
            product_name = input("Enter the product name: ")
            product_price = float(input("Enter the product price: "))
            product_stock = int(input("Enter the product stock
quantity: "))
            product = Product(product_name, product_price,
product_stock)
            products.append(product)
            product.add_product()

        elif choice == '2':
            product_name = input("Enter the product name to update
stock: ")
            product_found = False
            for product in products:
                if product.name == product_name:
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                    quantity = int(input("Enter quantity to
add/remove: "))
                    product.update_stock(quantity)
                    product_found = True
                    break

            if not product_found:
                print("Product not found.")

        elif choice == '3':
            product_name = input("Enter the product name to view
details: ")
            product_found = False
            for product in products:
                if product.name == product_name:
                    print(product)
                    product_found = True
                    break

            if not product_found:
                print("Product not found.")

        elif choice == '4':
            print("Exiting the system. Goodbye!")
            break

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

if __name__ == "__main__":
    main()
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Menu:
1. Add Product
2. Update Product Stock
3. View Product Details
4. Exit
Enter your choice (1/2/3/4): 1
Enter the product name: LAPTOP
Enter the product price: 300
Enter the product stock quantity: 3000
Product LAPTOP added with price $300.0 and stock 3000.
Product added successfully

Menu:
1. Add Product
2. Update Product Stock
3. View Product Details
4. Exit
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Enter your choice (1/2/3/4): 2
Enter the product name to update stock: LAPTOP
Enter quantity to add/remove: -67
Stock updated. New stock: 2933

Menu:
1. Add Product
2. Update Product Stock
3. View Product Details
4. Exit
Enter your choice (1/2/3/4): 3
Enter the product name to view details: LAPTOP
Product: LAPTOP, Price: $300.0, Stock: 2933

Menu:
1. Add Product
2. Update Product Stock
3. View Product Details
4. Exit
Enter your choice (1/2/3/4): 4
Exiting the system. Goodbye!
```