## **Online Shopping System**

## Task 1: Delegates and Funcs

- Create a delegate named **DiscountCalculator** that takes the total amount of a shopping cart as input and returns the discounted amount. Implement three functions: **RegularCustomerDiscount**, **VIPCustomerDiscount**, and **SaleDiscount**, that have their custom percentage of a discount and assign them to the delegate.
- 2. In the Main method, demonstrate the use of the **DiscountCalculator** delegate by applying each type of discount to a sample shopping cart.

## Task 2: Builder Design Pattern

- 1. Implement a class named **Product** with properties like **Name**, **Price**, and **Description**.
- Create a builder class named **ProductBuilder** with methods for setting each property of the **Product**. The builder should have a method named **Build** that returns the final product.
- 3. In the Main method, demonstrate the use of the builder pattern by creating at least two different products using the **ProductBuilder**.

## **Task 3: Integration**

- 1. Create the **OrderBuilder** class using the Builder design pattern as well and include the ability to add products to an order.
- Create a class named ShoppingCart that can hold a list of products. It should have a
  method named Checkout that takes a DiscountCalculator delegate, calculates the
  discounted total amount, and returns an instance of the OrderBuilder with added
  products.
- 3. In the Main method, demonstrate the integration by creating a shopping cart, adding products to it, and using the **DiscountCalculator** delegate during the checkout process. Build the final order using the modified **OrderBuilder**.