**Practice “Classes and their main features”**

1. Constructors;
   * Create class Purchase with following fields Product, Amount;
   * Create constructor with following parameters product, amount.
   * Create parameter constructor for Customer class. (rename class Consumer class to Customer)
2. Fields;
   * Purchase. Add static double field in class DefautAmount = 1.00;
   * Customer. Make DateOfRegistration field readonly ;
   * Create class Order with following fields Purchases and Customer
3. Properties;
   * Create properties for all fields of Customer, Purchase, Product, Customer, Order classes;
   * Create automatic properties for all properties of Customer, Purchase, Product, Customer, Order classes;
   * Make DateOfRegistration property only get access method;
   * Initialize DateOfRegistration property current DateTime;
4. Methods;
   * **Purchase**. Add field **sumOfPurchase** to class Purchase;
   * **Purchase**.Add method which **calculate** sum of products and set sumOfPurchase;
   * Remove sumOfPurchase and change method **calculate –** method must return sum of purchase;
   * Order. Add method **IsTodayOrder** which will check is current day purchase;
   * Add method **Summarize** which will return short summary about purchase (string format);
   * Add static class PurchaseCalculator, add static method Calculate which will receive as input parameter Product and parameter amount and return sum;
   * add static method (overloaded) Calculate which will receive as input parameter Purchase and return sum;
5. Delegates;
   * Create delegate LogPurchaseInfo which does not have return value and input parameter Purchase;
   * Create method Add in class Order which will receive parameter Purchase and to collection Purchases.
6. Events;
   * Create event PurchaseAdded and call it after adding purchase in Add method.
7. In ProductCalculator method Calculate try to change received parameter amount and check it after calling parameter, try do the same for Purchase price.
8. Change ProductCalculator method Calculate parameter input amount with ref keyword and out keyword and do previous point.
9. Create 5 Orders with different Purchase and Consumer, write to console summary information about Purchase and Consumer