HOMEWORK 7 Questions and sources

1.

Store
Class
↗ customer
↗ product

▭ Fields
- customerlist
- productlist

▭ Methods
- AddCustomerT...
- addProductToList
- customerpaym...
- findcustomer
- findProduct
- getIdNum
- getshipment
- makepurchase
- PrintCustList
- PrintProductList
- setsale

product
Class

▭ Fields
- amount
- amountpurchas...
- product_id
- product_name
- retail_cost
- whole_cost

▭ Methods
- addquantity
- getamountpurc...
- getNewProduct
- getProductinfo...
- Print
- setsale
- subquantity

customer
Class

▭ Fields
- balance
- customerId
- firstname
- lastname
- purchasehist

▭ Methods
- addbalance
- addtopurchasel...
- getBalance
- getBalanceum
- getcustomerinfo
- getpurchase
- Print
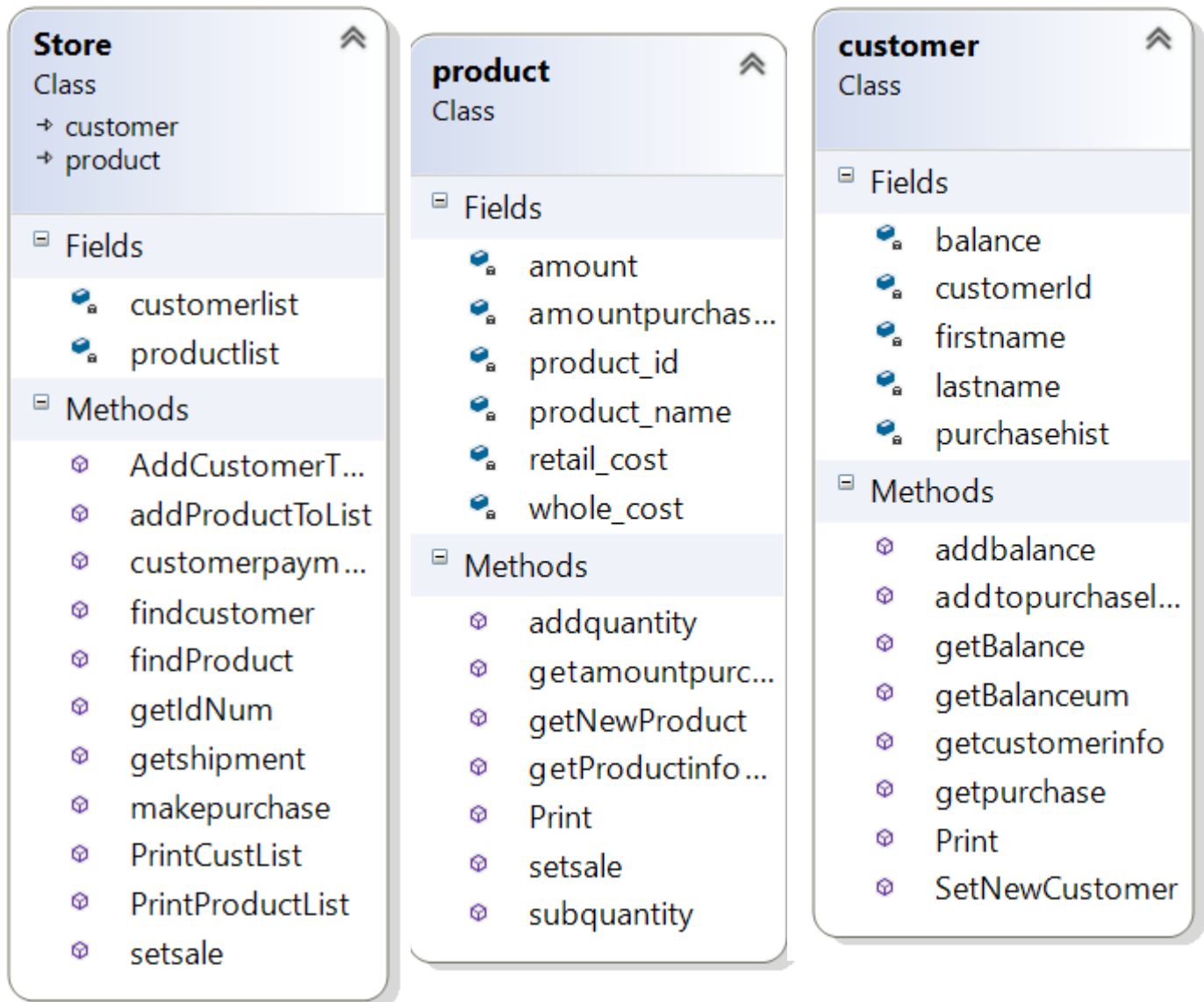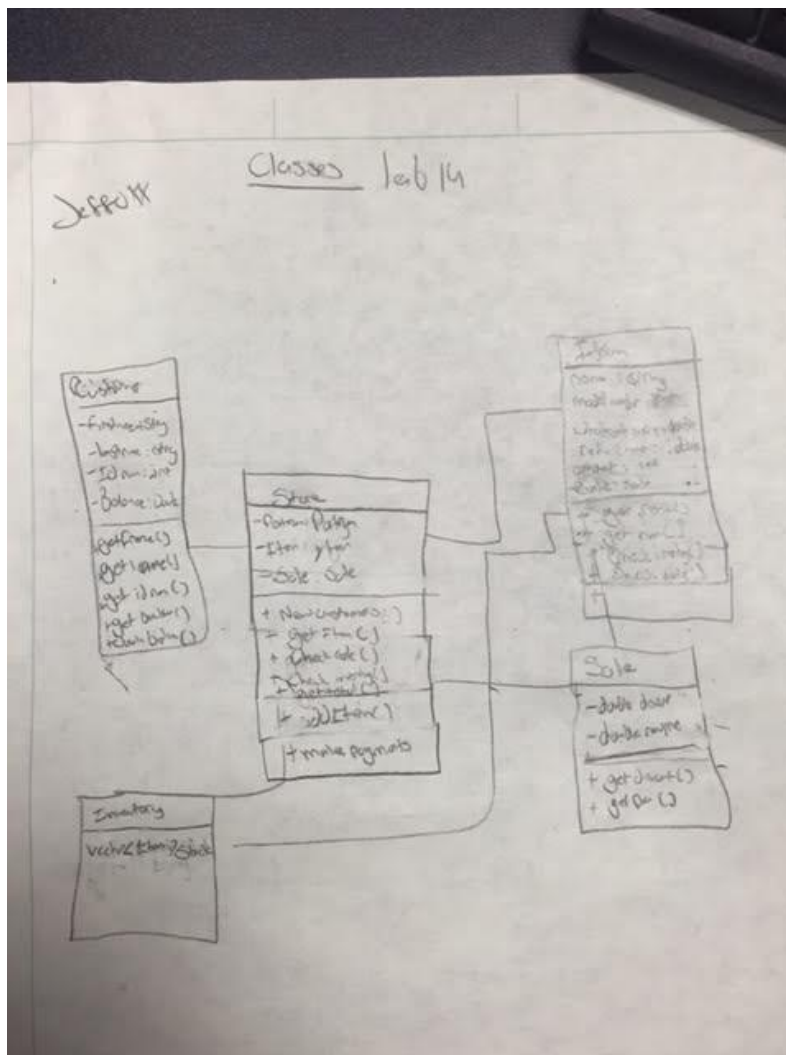- SetNewCustomer

1. There were actually many more difference between the two diagrams than I intended since my understanding of classes increased greatly during this time period. For starters I only made three classes rather than the five depicted in my sketch. The sale class as incorporated into the product class and made into a function. Also inventory was absorbed into the store class. Many of the other functions were changed and some functions like getcustomer weren't in the class originally designated them too.

2. During the process of the creating this program I learned many things. The most important thing I learned was that good planning is essential to creating large interdependent programs. Next time I create a project that involves classes I will make sure to plan every detail to the last second so I can avoid the amount of time I spend debugging. I also would make sure I write exceptions as I go.

Sources:

Dr. Moore

Zybooks

C++ stacks