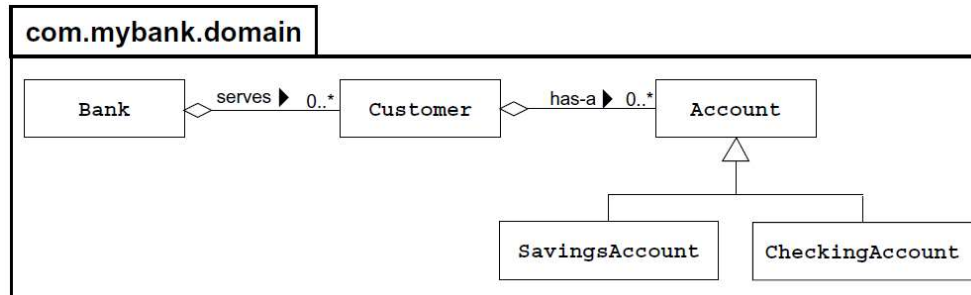


Lab 9: Creating a Heterogeneous Collection of Customer Accounts

In this exercise, you create a heterogeneous array to represent the aggregation of customers to accounts. That is, a given customer can have several accounts of different types.

Figure below shows UML class diagram of the relationships between bank, customers, and accounts. What has changed is that a Customer object may now have more than one account and these accounts may be of different types, subclasses of the Account class.



1. Modify the Customer class in the com.mybank.domain source package of the BankProject. Modify the Customer class to handle the association with multiple accounts, just as you did in the previous Lab 8. It must include the public methods: addAccount(Account), getAccount(int), and getNumOfAccounts().
2. Create the com.mybank.report source package in the BankProject.
3. Download the CustomerReport.java file and add it into the com.mybank.report package.
4. Complete the CustomerReport.java code. You will find comment blocks that start and end with `/** ... */`. These comments indicate the location in the code that you must supply.
5. Download TestReport.java file and add it into com.mybank.test package.
6. Run the test program. The output should be similar to the following.

CUSTOMERS REPORT
=====

```
Customer: Simms, Jane
    Savings Account: current balance is 500.0
    Checking Account: current balance is 200.0

Customer: Bryant, Owen
    Checking Account: current balance is 200.0

Customer: Soley, Tim
    Savings Account: current balance is 1500.0
    Checking Account: current balance is 200.0

Customer: Soley, Maria
    Checking Account: current balance is 200.0
    Savings Account: current balance is 150.0
```