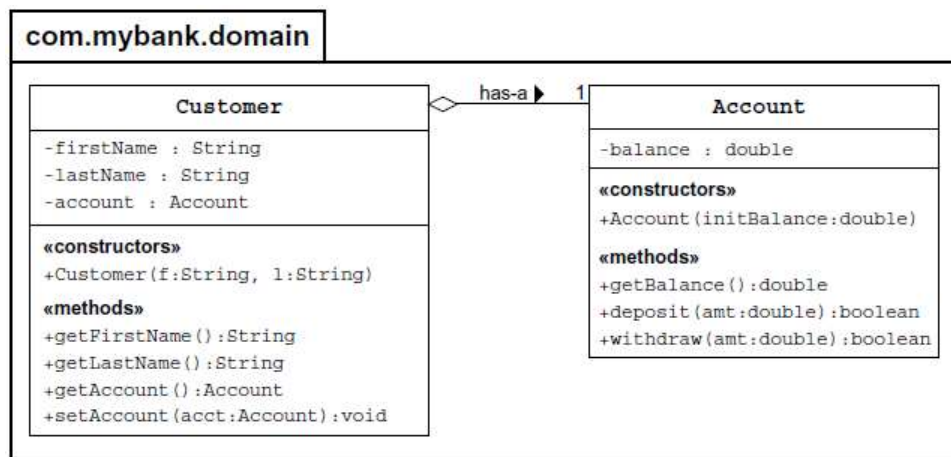


Expressions and Flow Control

Lab 6: Using Conditional Statements in the Account Class

In this exercise, you modify the withdraw method to return a Boolean value to specify whether the operation was successful.

Figure below shows the UML diagram of the BankProject. The Account class now includes a design change to the deposit and withdraw methods; these methods must now return a Boolean value to indicate the success (true) or failure (false) of the operation.



1. Modify the Account class source file. This class must satisfy the UML diagram above. In particular, the deposit and withdraw methods must return a Boolean value as described previously in this exercise.
2. Add a test class called TestBanking2 with below codes.

```
package com.mybank.test;
```

```
import com.mybank.domain.*;
```

```
/*
```

```
 * This class creates the program to test the banking classes.
 * It creates a new Customer and Account (with an initial balance),
 * and performs a series of transactions with the Account object.
 */
```

```
public class TestBanking2 {
    public static void main(String[] args) {
        Customer customer;
        Account account;
```

```

boolean operationResult;

// Create an account that can has a 500.00 balance and type savings.
System.out.println("Creating the customer Jane Smith.");
customer = new Customer("Jane", "Smith");
System.out.println("Creating her account with a 500.00 balance.");
customer.setAccount(new Account(500.00));
account = customer.getAccount();

operationResult = account.withdraw(150.00);
System.out.println("Withdraw 150.00: " + operationResult);

operationResult = account.deposit(22.50);
System.out.println("Deposit 22.50: " + operationResult);

operationResult = account.withdraw(47.62);
System.out.println("Withdraw 47.62: " + operationResult);

operationResult = account.withdraw(400.00);
System.out.println("Withdraw 400.00: " + operationResult);

// Print out the final account balance
System.out.println("Customer [" + customer.getLastName()
    + ", " + customer.getFirstName()
    + "] has a balance of " + account.getBalance());
}
}

```

3. Run the TestBanking2 class. The output of the test program should be similar to the following.

```

Creating the customer Jane Smith.
Creating her account with a 500.00 balance.
Withdraw 150.00
Deposit 22.50
Withdraw 47.62
Customer [Smith, Jane] has a balance of 324.88

```