Credit name: Inheritance and Polymorphism Reflection log: Accounts

```
public class Customer
   private String firstName, lastName, street, city, province, postal_code;
   //create String variables street, city, province, postal code
      ggs: none
post: A Customer object has been created.
Customer data has been initialized with parameters.
   public Customer(String fName, String lName, String str, String cityy, String prov, String post) //modify constructor to include street, city, province, postal code
       firstName = fName:
       lastName = lName;
street = str;
city = cityy;
       province = prov;
postal_code = post;
      //reflect the changes in the parameter
I started by taking the customer code from D2L and modifying the methods as it stated
 //create changeCity method that asks the user their city and records city in a variable above
 public void changecity()
       Scanner input = new Scanner(System.in);
       System.out.println(" what is your city?");
       city =input.nextLine();
 }
 //create changeStreet method that asks the user their street and records street in a variable above
 public void changestreet()
       Scanner input = new Scanner(System.in);
       System.out.println(" what is your street?");
       street =input.nextLine();
 //create changeProvince method that asks the user their province and records province in a variable above
 public void changeprov()
       Scanner input = new Scanner(System.in);
System.out.println(" what is your province?");
       province =input.nextLine();
 //create changePostalCode method that asks the user their postal code and records postal code in a variable above
 public void changepost()
       Scanner input = new Scanner(System.in);
       System.out.println(" what is your postal code ?");
       postal code =input.nextLine();
Then I updated my toString
 public String toString() {
    //update this string so that it contains the street, city, province, and postal code custString = firstName + " " + lastName + " ", your street is " + street +" ,your city is " + city + " ,your province is " + province + " ,and your postal code is " + postal_code; return(custString);
```

Next I moved on to account

```
//Create a changeAddress() method that calls the cust object from above in order to change
//Street, city, province, postalCode

public void changeAdress()
{
    cust.changecity();
    cust.changepost();
    cust.changeprov();
    cust.changestreet();
}
```

I added the change address method

```
package Account_PersonalAcct;
public class BusinessAcct extends Account{
    public BusinessAcct(double bal, String fName, String lName, String str, String cityy, String prov, String post) {
        super(bal, fName, lName, str, cityy, prov, post);
        if (bal >= 500)
        {
            withdrawal(10);
            System.out.println("As you didn't have 500 dollars in your Business palance, 10 dollars has been withdrawn");
        }
        // TODO Auto-generated constructor stub
    }
    public String toString() {
        return "The business account ID is " + super.toString();
}
```

Next I created the business account class, and had it check if the balance was over 500, if it wasn't then 10 dollars were removed from the balance

```
package Account_PersonalAcct;

public class personalAcct extends Account{

   public personalAcct(double bal, String fName, String lName, String str, String cityy, String prov, String post) {
        super(bal, fName, lName, str, cityy, prov, post);

        if (100 > bal)
        {
            withdrawal(2);
            System.out.println("As you didn't have 100 dollars in your personal balance, 2 dollars has been withdrawn");
        }

        // TODO Auto-generated constructor stub
    }

    public String toString() {
        return "The personal account ID is " + super.toString();
    }
}
```

Finally I created the personal account class, and had it check if it had 100 dollars and if not it removed 2 dollars from the account.

```
package Account_PersonalAcct;

public class AccountTest {
    public static void main(String[] args) {
        // TODO Auto-generated method stub

        personalAcct pAct = new personalAcct(101, "logan", "sigh", "do", "moscow", "california", "43 ");
        BusinessAcct bAct = new BusinessAcct(700, "grayson", "why", "headers", " Bangkok", "japan ", "0.1134 ");
        Account act = new Account(75, "bob", "joe", "this", "bankon", "hell", "sighh");

        System.out.println(pAct);
        System.out.println(bAct);
        System.out.println(act);

        System.out.println(act.getBalance());
        System.out.println(act.getBalance());
        System.out.println([act.getBalance()));
        System.out.println([act.getBalance()));
```

At the end I created my test class and made it test the methods to see if they worked, they did.

}