package creditcard.account;

import java.util.Date;

import framework.account.Account;

import framework.customer.ICustomer;

public abstract class ACCAccount extends Account {

protected Date expDate;

public ACCAccount(ICustomer customer, String accountNum) {

super(customer, accountNum);

}

public Date getExpDate() {

return expDate;

}

}

package creditcard.account;

import creditcard.account.factory.ACCAccount;

import framework.customer.ICustomer;

public class SilverCCAccount extends ACCAccount {

private static final double INTEREST\_RATE = 0.1;

private static final String ACCT\_TYPE = "S";

private static final double MINIMUM\_PAYMENT\_RATE = 0.12;

public SilverCCAccount(ICustomer customer, String accountNum) {

super(customer, accountNum);

this.interestRate = INTEREST\_RATE;

this.accountType = ACCT\_TYPE;

this.minimumPayment=MINIMUM\_PAYMENT\_RATE;

}

}

package creditcard.account;

import creditcard.account.factory.ACCAccount;

import framework.customer.ICustomer;

public class GoldCCAccount extends ACCAccount {

private static final double INTEREST\_RATE = 0.08;

private static final String ACCT\_TYPE = "G";

private static final double MINIMUM\_PAYMENT\_RATE = 0.1;

public GoldCCAccount(ICustomer customer, String accountNum) {

super(customer, accountNum);

this.interestRate = INTEREST\_RATE;

this.accountType = ACCT\_TYPE;

this.minimumPayment=MINIMUM\_PAYMENT\_RATE;

}

}

package creditcard.account;

import creditcard.account.factory.ACCAccount;

import framework.customer.ICustomer;

public class PlatinumCCAccount extends ACCAccount {

private static final double INTEREST\_RATE = 0.06;

private static final String ACCT\_TYPE = "S";

private static final double MINIMUM\_PAYMENT\_RATE = 0.14;

public PlatinumCCAccount(ICustomer customer, String accountNum) {

super(customer, accountNum);

this.interestRate = INTEREST\_RATE;

this.accountType = ACCT\_TYPE;

this.minimumPayment=MINIMUM\_PAYMENT\_RATE;

}

}

package creditcard.account.factory;

import creditcard.account.GoldCCAccount;

import framework.account.IAccount;

import framework.account.factory.IAccountFactory;

import framework.customer.ICustomer;

public class GoldCCAccountFactory implements IAccountFactory {

@Override

public IAccount createAccount(ICustomer iCustomer, String accountNumber) {

return new GoldCCAccount(iCustomer, accountNumber);

}

}

package creditcard.account.factory;

import creditcard.account.SilverCCAccount;

import framework.account.IAccount;

import framework.account.factory.IAccountFactory;

import framework.customer.ICustomer;

public class SilverCCAccountFactory implements IAccountFactory {

@Override

public IAccount createAccount(ICustomer iCustomer, String accountNumber) {

return new SilverCCAccount(iCustomer, accountNumber);

}

}

**package** creditcard.account.factory;

**import** creditcard.account.PlatinumCCAccount;

**import** framework.account.IAccount;

**import** framework.account.factory.IAccountFactory;

**import** framework.customer.ICustomer;

**public** **class** PlatinumCCAccountFactory **implements** IAccountFactory {

@Override

**public** IAccount createAccount(ICustomer iCustomer, String accountNumber) {

**return** **new** PlatinumCCAccount(iCustomer, accountNumber);

}

}