LAB-4

import java.util.\*;

public class AccountMain {

public static void main(String[] args) {

// TODO Auto-generated method stub

AccountMain account=new AccountMain();

account.details();

}

public void details()

{

Account account=new Account();

Person person=new Person();

Random rd = new Random();

person.setName("smith");

person.setAge(45);

account.setAccNum(rd.nextLong());

account.setBalance(2000);

account.setPerson(person);

Account account1=new Account();

Person person1=new Person();

person1.setName("kathy");

person1.setAge(30);

account1.setAccNum(rd.nextLong());

account1.setBalance(3000);

account1.setPerson(person1);

account.deposit(2000);

account1.withdraw(2000);

System.out.println(account.getBalance()+" "+account.getAccNum());

System.out.println(account1.getBalance()+" "+account.getAccNum());

}

}

public class SavingsAccount extends Account {

private final double minBalance=500;

@Override

public void withdraw(double withdraw)

{

if(getBalance()>=minBalance)

{

System.out.println("nooo balance");

}

else

{

setBalance(getBalance()-withdraw);

}

}

}

public class Account {

private long accNum;

private double balance;

private Person person;

public void deposit(double deposit)

{

setBalance(balance+deposit);

}

public void withdraw(double withdraw)

{

setBalance(balance-withdraw);

}

public long getAccNum() {

return accNum;

}

public void setAccNum(long accNum) {

this.accNum = accNum;

}

public double getBalance() {

return balance;

}

public void setBalance(double balance) {

this.balance = balance;

}

public Person getPerson() {

return person;

}

public void setPerson(Person person) {

this.person = person;

}

}

private double overdraftlimit=500;

@Override

public void withdraw(double withdraw)

{

if(getBalance()>=overdraftlimit)

{

System.out.println("nooo balance");

}

else

{

setBalance(getBalance()-withdraw);

}

}

}

public class Person {

private String name;

private int age;

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public int getAge() {

return age;

}

public void setAge(int age) {

this.age = age;

}

}