

08/11/20.

Lab 5. - Bank programs.

```
import java.util.Scanner;
```

```
abstract class account
```

```
{
```

```
String accname, acctype;
```

```
long acnum;
```

```
double balance;
```

```
final int minbal = 1000;
```

```
account (String name, long num, double bal,
```

```
: String type)
```

```
{
```

```
accname = name;
```

```
acnum = num;
```

```
balance = bal;
```

```
acctype = type;
```

```
{
```

```
abstract void addBal (double amt);
```

```
abstract void dispBal ();
```

```
abstract void withdraw (double amt);
```

```
{
```

```
class currcacct extends account {
```

```
currcacct (String name, long num, double bal,
```

```
: String type)
```

```
{
```

```
super (name, num, bal, type);
```

```
System.out.println ("name:" + accname + " | acnum:
```

```
+ " | balance:" + balance + " | acctype: " + acctype);
```

```
{
```

```
void addBal (double amount)
```

```
{
```

```
balance = balance + amount;
```

```
{
```

void dispBal()
{

System.out.println("Your balance: "+balance);

3. void withdraw(double amount)

{
if (balance < amount)

System.out.println("You don't have enough
balance");

System.out.println("balance: "+balance);
return;

}

balance = balance - amount;

8.0. println("balance: "+balance);

if (balance < minbal)

{

8.0. println("Penalty of £ "+(balance * 0.01));
as balance is less than the min needed)

balance = balance - balance * 0.01;

8.0. println("Current balance = "+balance);

}

3.

class SavAcct extends Account {

SavAcct (String name, long num, double bal)
{

Super (name, num, bal, "Savings");

8.0. println("name "+accName+" IntRate "+

+ accNum + " IBal "+bal + " InType "+
accType);

9.

```
void addBal (double amount)
```

{

```
balance = balance + amount;
```

```
interest();
```

{

```
void interest()
```

{

```
int t=2
```

```
balance = balance * Math.pow(1 + (0.2), t);
```

```
void dispBal()
```

{

```
System.out.println("Balance: " + balance);
```

{

```
void withdraw (double amount)
```

{

```
balance = balance - amount;
```

```
System.out.println("Balance: " + balance);
```

{

```
public class bank
```

{

```
public static void main (String ss[])
```

{

```
Scanner sc = new Scanner (System.in);
```

```
Customer c = new Customer ("Toy", 12345,
```

```
3000.0, "Customer")
```

```
double amount;
```

```
int flag = 0;
```

```
while (flag == 0)
```

```
System.out.println ("1. Add Balance : display.
```

```
2. Withdraw 3. Checkbook 4. Saving")
```

```
int cb = sc.nextInt();
sc.nextLine();
{
```

```
case 1: s.o.println("Enter amount to be added");
amount = sc.nextDouble();
c.addBal(amount);
break;
```

```
case 2: c.dispBal();
break;
```

```
case 3: s.o.println("Enter amount to be withdrawn");
amount = sc.nextDouble();
c.withdraw(amount);
break;
```

```
case 4: s.o.println("Enter details : Name of the
executive");
String name = sc.nextLine();
String reName = sc.nextLine();
```

```
s.o.println("Enter amount to be sent");
double a = sc.nextDouble();
if(a > c.balance)
{
```

```
s.o.println("You dont have enough balance");
}
```

```
else
```

```
{
```

```
s.o.println("Enter password");
```

```
String p = sc.nextLine();
```

```
p = sc.nextLine();
```

```
s.o.println("Recipient "+reName+" amount
sent is "+a);
```

```
c.balance = c.balance - a;
```

```
s.o.println("balance = "+c.balance);
break;
```

default:

 flag = 1;

{

Sav-Acc s = new Sav-Acc("Pop", 1111, 8000);

flag = 0;

while(flag == 0)

{

s.o.Println(1. AddBal 2. Display 3. Withdraw

4. quit");

int ch = sc.nextInt();

switch(ch)

{

case 1: System.out.println("Enter amount to
be added");

amount = sc.nextDouble();

s.addBal(amount);

break;

case 2:

s.dispBal();

break;

case 3:

System.out.println("Enter amount to be
withdrawn:");

amount = sc.nextDouble();

s.withdraw(amount);

break;

default: flag = 1;

{

3.

3.

{