

Week 8 lab 5

```
import java.util.*;

class Account
{
    String Name;
    int acno;
    String type;
    double balance;
    Scanner sc = new Scanner(System.in);
    void accept()
    {
        System.out.println("Enter name");
        name = sc.next();
        System.out.println("Enter acno");
        acno = sc.nextInt();
    }
}

class Curr-acct extends Account
{
    double deposit;
    double withdraw;
    double min-bal = 1000;
    int penalty = 100;
    Scanner sc = new Scanner(System.in);
    void accept()
    {
        System.out.println("Enter the balance");
        balance = sc.nextDouble();
    }
    void update()
    {
        System.out.println("Enter the deposit");
        deposit = sc.nextDouble();
    }
}
```

```
balance += deposit;
System.out.println("balance got update to: " + balance);
}
void check()
{
if (balance < min-bal)
{
System.out.println("a penalty of 100 is imposed");
balance -= penalty;
System.out.println("balance got update to: " + balance);
}
}
void withdrawal()
{
System.out.println("Enter amt to be withdrawn");
withdrawal = sc.nextDouble();
balance -= withdrawal;
System.out.println("balance got updated to: " + balance);
check();
}
void display()
{
System.out.println("----- DETAILS -----");
System.out.println("name: " + name);
System.out.println("acc no: " + acc no);
System.out.println("type: " + type);
if (balance < 0)
{
System.out.println("balance: " + balance);
System.out.println("cheque book facility exists");
}
}
```

```

class sav acct extends Account
{
    double balance;
    double deposit;
    double withdraw;
    double interest, time, rate;
    Scanner sc = new Scanner (System.in);
    void accept()
    {
        System.out.println ("Enter the balance");
        balance = sc.nextDouble();
    }
    void update()
    {
        System.out.println ("Enter the deposit");
        deposit = sc.nextDouble();
        balance += deposit;
        System.out.println ("Balance got update to: " + balance);
    }
    void calcinterest()
    {
        System.out.println ("Enter amt to be withdrawn");
        withdraw = sc.nextDouble();
        balance -= withdraw;
        System.out.println ("Balance got update to: " + balance);
    }
    void display()
    {
        System.out.println ("----- DETAILS -----");
        System.out.println ("Name: " + name);
        System.out.println ("Acno: " + accno);
        System.out.println ("type: " + type);
        calcinterest();
    }
}
    
```

```
if (balance < 0)
```

```
{
    System.out.println("balance: " + balance);
    System.out.println();
    System.out.println("Cheque book facility does not exist.");
}
```

```
class Bank
```

```
{
    public static void main (String args[])
    {
        int op, ch;
        Scanner sc = new Scanner (System.in);
        System.out.println ("1. Curr Acct 2. Sav. acct");
        System.out.println ("Enter your choice");
        op = sc.nextInt();
        switch (op)
        {
            case 1:
                a.update();
                break;
            case 2:
                if (op == 1)
                {
                    Curr-acct a = new Curr-acct();
                    a.type = "Curr-acct";
                    a.accept();
                    a.accept1();
                    do {
                        System.out.println ("1. deposit 2. withdrawal 3. exit");
                        System.out.println ("Enter your choice");
                        ch = sc.nextInt();
                        switch (ch)

```



```

    {
    case 1:
        a.update();
        break;
    case 2:
        a.withdrawal();
        break;
    case 3:
        a.display();
        break;
    default:
        System.out.println("Wrong choice");
    }
    while(ch != 3);
}
if (op == 2)
{
    sav_acc b = new sav_acc();
    b.type = "sav_acc";
    b.accept();
    b.accept();
    do {
        System.out.println("1. deposit 2. withdrawal 3. exit");
        System.out.println("Enter your choice");
        ch = sc.nextInt();
        switch(ch)
        {
            case 1:
                b.update();
                break;
            case 2:
                b.withdrawal();
                break;

```

case 3:

```
b.display();
```

```
break;
```

```
default:
```

```
System.out.println("Wrong choice");
```

```
}
```

```
while (ch != 3);
```

```
}
```

```
}
```

```
}
```