

Bank1.java > AccountMain > main(String[])

```
1  import java.util.Scanner;
2
3  abstract class Account {
4      String cName, accType;
5      long accNo;
6      double bal;
7      final double minBal = 1000.0;
8
9      Account(String cName, long accNo, double bal, String accType) {
10         this.accNo = accNo;
11         this.cName = cName;
12         this.bal = bal;
13         this.accType = accType;
14     }
15
16     abstract void addBal(double amt);
17
18     abstract void dispBal();
19
20     abstract void withBal(double amt);
21 }
22
23 class Curr_acct extends Account {
24     Curr_acct(String cName, long accNo, double bal) {
25         super(cName, accNo, bal, "Current");
26         System.out.println("name: " + cName + "\taccno: " + accNo + "\tbal: " + bal + "\ttype: " + accType);
27     }
28
29     void addBal(double amt) {
30         this.bal += amt;
31     }
32 }
33
```

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30     this.bal += amt;
31
32 }
33
34 void dispBal() {
35     System.out.println("Your balance is: " + this.bal);
36 }
37
38 void withBal(double amt) {
39     if (this.bal == 0 || amt > this.bal) {
40         System.out.println("withdrawal not possible");
41     }else{
42         this.bal -= amt;
43         checkBal();
44     }
45 }
46
47 void checkBal() {
48     if (this.bal < minBal) {
49         this.bal -= this.bal * 0.02;
50     }
51 }
52 }
53
54 class Sav_acct extends Account {
55     Sav_acct(String cName, long accNo, double bal) {
56         super(cName, accNo, bal, "Savings");
57         System.out.println("name: " + cName + "\taccno: " + accNo + "\tbal: " + bal + "\ttype: " + accType);
58     }
59
60     void addBal(double amt) {
61         this.bal += amt;
62         addInte();

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59
60     void addBal(double amt) {
61         this.bal += amt;
62         addIntr();
63     }
64
65     void addIntr() {
66         this.bal += this.bal * 0.07;
67     }
68
69     void dispBal() {
70         System.out.println("Your balance is: " + this.bal);
71     }
72
73     void withBal(double amt) {
74         if (this.bal == 0 || amt > this.bal) {
75             System.out.println("withdrawal not possible");
76         }else{
77             this.bal -= amt;
78         }
79     }
80 }
81
82 }
83
84 class AccountMain {
85     Run | Debug
86     public static void main(String[] args) {
87         Scanner sc = new Scanner(System.in);
88         Double amt;
89         int flag = 0;
90         while (flag == 0) {
91             System.out.println("1.Current acc \n2.Savings acc \ndefault:exit");

```

Run | Debug

```
85 public static void main(String[] args) {
86     Scanner sc = new Scanner(System.in);
87     Double amt;
88     int flag = 0;
89     while (flag == 0) {
90         System.out.println("1:Current acc.\n2:Savings acc.\ndefault:exit");
91         int ch = sc.nextInt();
92         String nam;
93         long acno;
94         double balan;
95         switch (ch) {
96             case 1:
97                 System.out.println("Enter name, acc no, initial balance in order:");
98                 nam = sc.next();
99                 acno = sc.nextLong();
100                 balan = sc.nextDouble();
101                 Curr_acct c = new Curr_acct(nam, acno, balan);
102                 System.out.println("\nCurrent_acct\n");
103                 int flag1 = 0;
104
105                 while (flag1 == 0) {
106                     System.out.println("1:Addamount\n2:displayBalance\n3:withdraw\ndefault:exit");
107                     int ch1 = sc.nextInt();
108                     switch (ch1) {
109                         case 1:
110                             System.out.println("enter amt to be added:");
111                             amt = sc.nextDouble();
112                             c.addBal(amt);
113                             break;
114
115                         case 2:
116                             c.dispBal();
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113         break;
114
115     case 2:
116         c.dispBal();
117         break;
118
119     case 3:
120         System.out.println("enter amt to be withdrawn:");
121         amt = sc.nextDouble();
122         c.withBal(amt);
123         break;
124
125     default:
126         flag1 = 1;
127     }
128 }
129 break;
130 case 2:
131     System.out.println("\nSavings_acct\n");
132     System.out.println("Enter name, acc no, initial balance in order:");
133     nam = sc.next();
134     acno = sc.nextLong();
135     balan = sc.nextDouble();
136     Sav_acct s = new Sav_acct(nam, acno, balan);
137     int flag2 = 0;
138     while (flag2 == 0) {
139         System.out.println("1:AddBal\n2:displayBal\n3:withdraw\ndefault:exit");
140         int ch2 = sc.nextInt();
141         switch (ch2) {
142             case 1:
143                 System.out.println("enter amt to be added:");
144                 amt = sc.nextDouble();
145                 s.addBal(amt);

```

```

140     System.out.println( "1.AddBal\n2.DisplayBal\n3.WithDraw\n0.Default.Exit" );
141     int ch2 = sc.nextInt();
142     switch (ch2) {
143         case 1:
144             System.out.println("enter amt to be added:");
145             amt = sc.nextDouble();
146             s.addBal(amt);
147             break;
148         case 2:
149             s.dispBal();
150             break;
151         case 3:
152             System.out.println("enter amt to be withdrawn:");
153             amt = sc.nextDouble();
154             s.withBal(amt);
155             break;
156         default:
157             flag2 = 1;
158     }
159     break;
160     default:
161         flag = 1;
162     }
163 }
164 }
165 }
166 }
167 }
168 }
169 }
170 }

```

```
E:\jdk8\bin\ooj lab>java AccountMain
1:Current acc.
2:Savings acc.
default:exit
1
Enter name, acc no, initial balance in order:
nakdkd 123456778 5000
name: nakdkd    accno: 123456778    bal: 5000.0    type: Current

Current_acct

1:Addamount
2:displayBalance
3:withdraw
default:exit
1
enter amt to be added:
4000
1:Addamount
2:displayBalance
3:withdraw
default:exit
2
Your balance is: 9000.0
1:Addamount
2:displayBalance
3:withdraw
default:exit
3
enter amt to be withdrawn:
8100
1:Addamount
2:displayBalance
3:withdraw
default:exit
2
Your balance is: 882.0
1:Addamount
2:displayBalance
3:withdraw
default:exit
3
```

```
default:exit
2
Your balance is: 882.0
1:Addamount
2:displayBalance
3:withdraw
default:exit
3
enter amt to be withdrawn:
100
1:Addamount
2:displayBalance
3:withdraw
default:exit
4
1:Current acc.
2:Savings acc.
default:exit
2
Savings_acct

Enter name, acc no, initial balance in order:
nasdr 12457467 5000
name: nasdr    accno: 12457467 bal: 5000.0    type: Savings
1:AddBal
2:displayBal
3:withdraw
default:exit
1
enter amt to be added:
1000
1:AddBal
2:displayBal
3:withdraw
default:exit
2
Your balance is: 6420.0
1:AddBal
2:displayBal
3:withdraw
default:exit
3
enter amt to be withdrawn:
```



```
Enter name, acc no, initial balance in order:
nasdr 12457467 5000
name: nasdr      accno: 12457467 bal: 5000.0      type: Savings
1:AddBal
2:displayBal
3:withdraw
default:exit
1
enter amt to be added:
1000
1:AddBal
2:displayBal
3:withdraw
default:exit
2
Your balance is: 6420.0
1:AddBal
2:displayBal
3:withdraw
default:exit
3
enter amt to be withdrawn:
4000
1:AddBal
2:displayBal
3:withdraw
default:exit
2
Your balance is: 2420.0
1:AddBal
2:displayBal
3:withdraw
default:exit
4
1:Current acc.
2:Savings acc.
default:exit
4
E:\jdk8\bin\oaj lab>
```