```
13 import java.util.Scanner;
14 class Account
15 ⊟{
16
        String name, accnum, acctype;
17
        boolean checkbook=true;
18
19
        double balance;
20
        Account(){}
21 ⊟
22 ⊟
                acctype="savings";
23
24 ⊟
            else if(a==2)
25
                acctype="current";
26
27
28
        void input()
29日
        {
30
            Scanner sc=new Scanner(System.in);
31
32
        System.out.println("enter name ,acc number");
33
        name=sc.next();
34
        accnum=sc.next();
35
36
        System.out.println("enter balance");
37
        balance=sc.nextInt();
38
39
40
    }
41
42 ∃void displaydetails()
43
            System.out.println("\nname="+name+"\naccnumber="+accnum+"\nbalance="+balance+"\naccount type="+acctype);
44
45
46 ∃ void display()
47 ⊟
        {
            System.out.printf("balance=%.2f",balance);
48
49
50
51
    }
53
    class curracct extends Account
```

```
52
53
54
    class curracct extends Account
55日{
56
        curracct()
57 ⊟
        {
                acctype="current";
58
59 ⊟
60
             double minbal=5000;
61
        void check()
62
63 ⊟
64
            double penalty=100;
65日
         if(balance<minbal)
66 ⊟
67
             balance=balance-penalty;
68
             System.out.println("penalty is imposed");
69
             System.out.println("balance="+balance);
70
71
72
            else
73.日
            {
74
              System.out.println("penalty not imposed");
75
76
77
78
        void deposit()
79 日
80 日
           Scanner sc=new Scanner(System.in);
81
            System.out.println("enter amt to deposit:");
82日
            double amt=sc.nextDouble();
83
               balance=balance+amt;
84
85
86
87
    class savacc extends Account
88 ⊟{
89 ⊟ savacc()
90 ⊟
        {
91
                acctype="savings";
92
```

93 ⊟ double ci;

```
7 class savacc extends Account
8 ⊟ {
9 ⊟ savacc()
0 E
1
               acctype="savings";
3 ∃double ci;
4 🖯
     void calcompound(int n,int t)
5 B
6
         ci=balance*(Math.pow((1+(0.2/n)),(n*t)));
7 E
         balance=balance+ci;
8
           System.out.printf("compound interest:%.2f",ci);
9
           System.out.printf("\nbalance:%.2f",balance);
0
1
2
      void withdrawal(double amt)
3 B
48
       {
15
           double minbal=5000;
6日
           if(balance<5000)
17
            System.out.println("amount cant be withdrawn as min balance(5000) constraint will be vi
8 🖽
          else
9
              balance=balance-amt;
0
1
       }
3
       void deposit()
4 ⊟
5 E
           System.out.println("enter amount to deposit: ");
6
            Scanner sc=new Scanner(System.in);
7
           double depamt;
           depamt=sc.nextDouble();
8.
9
           balance=balance+depamt;
          System.out.printf("\nbalance:%.2f",balance);
      }
```

```
124 class AccountMain
124 C1
125 日 {
126
127 日
128
129
130 日
131
           public static void main(String[] args)
               Scanner sc=new Scanner(System.in);
              //Account A=new Account();
132
133
134
135
136 ⊟
137
138
139
               System.out.println("enter 1 for savings account 2 for current account");
               int acctype=sc.nextInt();
              savacc s=new savacc();
              curracct c=new curracct();
               if(acctype==1)
              System.out.println("enter your details: ");
              s.input();
              s.displaydetails();
              System.out.println("number of times interest to be compounded per unit t(n), time in years");
              int n=sc.nextInt();
              int t=sc.nextInt();
              s.calcompound(n,t);
              int n1=1;
151
152
153
154
155
156 ⊟
157 ⊟
158
159
              while(n1==1)
              System.out.println("\nenter 1.deposit 2.withdrawl 3.exit");
              int w=sc.nextInt();
              if(w==1)
                  {
                    s.deposit();
                  }
              else if(w==2)
161 ⊟
162 ⊟
              {
                   System.out.println("enter the amount :");
                            double amt=sc.nextDouble();
                  s.withdrawal(amt);
```

141

142

143 144

145 146 147

148

149 150

163

164 165

```
145
146
              int n=sc.nextInt();
147
              int t=sc.nextInt();
148
              s.calcompound(n,t);
149
150
              int n1=1;
151
              while(n1==1)
152
              {
153
154
              System.out.println("\nenter 1.deposit 2.withdrawl 3.exit");
155
              int w=sc.nextInt();
156 B
              if(w==1)
157.日
                  {
158
                     s.deposit();
159
              else if(w==2)
160
161日
              {
162 ⊟
                  System.out.println("enter the amount :");
                           double amt=sc.nextDouble();
163
164
165
                  s.withdrawal(amt);
166
                  s.display();
167
              }
168 ⊟
              else
169
170
                  System.exit(0);
171
172
173
174
             else if(acctype==2)
175日
176日
                     System.out.println("enter your details: ");
177日
L78
                       c.input();
179
                       c.displaydetails();
180
                       c.check();
181
                       c.deposit();
182
                       c.display();
183
               }
184
185
     }
```

```
enter 1 for savings account 2 for current account
enter your details:
enter name ,acc number
harshitha 12345
enter balance
6000
name=harshitha
accnumber=12345
balance=6000.0
account type=savings
number of times interest to be compounded per unit t(n), time in years
23
compound interest:10629.37
balance:16629.37
enter 1.deposit 2.withdrawl 3.exit
2
enter the amount :
1000
balance=15629.37
enter 1.deposit 2.withdrawl 3.exit
1
enter amount to deposit:
100
balance:15729.37
enter 1.deposit 2.withdrawl 3.exit
Press any key to continue . .
```

C:\WINDOWS\system32\cmd.exe

 \times

C:\WINDOWS\system32\cmd.exe

```
enter your details:
enter name ,acc number
harshitha 12345
enter balance
3000

name=harshitha
accnumber=12345
balance=3000.0
account type=current
penalty is imposed
balance=2900.0
enter amt to deposit:
1000
balance=3900.00Press any key to continue . . .
```

enter 1 for savings account 2 for current account