```
import java.util.Scanner;
      abstract class Account
     ⊟{
          String cust name;
          long acc no;
          String acc type;
          double balance:
          double min bal = 1000.0;
      Account (String cust name, long no, String acc type, double balance)
 10
 11
          this.cust name=cust name;
 12
           this.acc no=acc no;
 13
           this.acc type=acc type;
           this.balance=balance;
 15
      abstract void deposit (double amount);
      abstract void display();
      abstract void withdrawal (double amount);
 18
 19
 20
      class Curr acct extends Account
 22
    □ (
 23
          double penalty=100.0;
          Curr acct (String cust name, long acc no, String acc type, double balance)
 24
 25
 26
              super(cust name,acc no,acc type,balance);
              System.out.println("Name of the customer: "+cust name);
 27
              System.out.println("Account Number : "+acc no);
 28
 29
              System.out.println("Account type: "+acc type);
 30
              System.out.println("Balance: "+balance);
 31
 32
 33
          void deposit (double amount)
 34
              this.balance = this.balance+amount;
 35
 36
 37
 38
          void display()
 39
              System.out.println("Balance is: " + this.balance);
 40
 41
          void withdrawal (double amount)
 42
 43
              this.balance = this.balance-amount;
 44
 45
              imposepenalty();
46
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                                                                                                     length: 5.232 lines: 159
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```
43
              this.balance = this.balance-amount;
44
45
             imposepenalty();
46
47
         void imposepenalty()
48
             if (this.balance < min bal)
49
50
                  this.balance=this.balance-penalty;
51
52
53
54
     class Sav acct extends Account
55
56
   ⊟ (
         Sav acct (String cust name, long acc no, String acc type, double balance)
57
58
59
             super(cust name,acc no,acc type,balance);
             System.out.println("Name of the customer: "+cust name);
             System.out.println("Account Number : "+acc no);
61
             System.out.println("Account type: "+acc type);
             System.out.println("Balance: "+balance);
         void deposit (double amount)
66 🖨
             this.balance = this.balance+amount;
67
             interest();
        void interest()
71
           int rate=10,time=1;
12
           float ci=(float) (this.balance*Math.pow(1+rate/100.0,time)-this.balance);
           this.balance=this.balance+ci;
        void display()
            System.out.println("Balance is: " +this.balance);
        void withdrawal (double amount)
            this.balance=this.balance-amount;
   class bank
6 ⊟{
       public static void main(String[] args)
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85
      class bank
                                                                                                                                                                                                    ^
86 ⊟{
 87
          public static void main (String[] args)
 88
 89
               Scanner ss = new Scanner (System.in) :
 90
               Double amount:
               int flag = 0:
 91
               while ( flag == 0)
 92
 93
 94
                   System.out.println("Enter the type of Account:\n1:Current account\n2:Savings account");
 95
                   int choice=ss.nextInt():
 96
                   switch (choice)
 97
98
                       case 1:System.out.println("\nCurrent account:\n");
 99
                       Curr acct c = new Curr acct ("Rahul", 15768912, "current", 30000.00);
                       int flag1 = 0:
100
101
                       while ( flag1 == 0)
102
                           System.out.println("Enter your choice\n1:Deposit amount\n2:DisplayBalance\n3:Withdraw");
                           int choicel= ss.nextInt():
104
105
                           switch (choice1)
106
107
                                case 1:
                               System.out.println("Enter amount to be deposited:");
109
                               amount = ss.nextDouble();
                               c.deposit (amount);
                               break;
112
113
                                case 2:
114
                               c.display();
115
                               break;
116
117
                                case 3:
118
                               System.out.println("Enter amount you want to withdraw:");
119
                               amount = ss.nextDouble();
                               c.withdrawal(amount);
121
                               break;
122
123
                                default:
124
                               flag1 = 1:
125
126
127
                       break;
128
                       case 2:System.out.println("\nSavings account:\n");
                       Sav acct s = new Sav acct("Vijay", 68432179, "Savings", 6000.00);
129
                       in+ flam? - n.
Java source file
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```
break:
116
117
                                case 3:
118
                                System.out.println("Enter amount you want to withdraw:");
119
                               amount = ss.nextDouble():
120
                               c.withdrawal(amount):
121
                               break:
122
123
                                default:
124
                                flag1 = 1:
125
126
127
                       break;
128
                       case 2:System.out.println("\nSavings account:\n");
129
                       Sav acct s = new Sav acct("Vijay", 68432179, "Savings", 6000.00);
130
                       int flag2 = 0;
131
                       while (flag2 == 0)
132
133
                           System.out.println("Enter your choice\n1:Deposit amount\n2:DisplayBalance\n3:Withdraw");
134
                           int choice2 = ss.nextInt():
135
                           switch (choice2)
136
137
                               case 1:System.out.println("Enter the Amount to be Deposited:");
138
                               amount = ss.nextDouble();
                              s.deposit (amount);
139
                              break:
140
141
                               case 2:
                              s.display();
142
143
                               break:
144
                               case 3:
                              System.out.println("Enter the Amount you want to Withdraw:");
145
                               amount = ss.nextDouble();
146
                              s.withdrawal(amount);
147
                               break;
148
                               default:
149
150
                               flag2 = 1;
151
152
153
                       break:
154
                       default:flag=1;
155
156
157
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```
Command Prompt - java bank
1:Current account
2:Savings account
1
Current account:
Name of the customer: Rahul
Account Number : 15768912
Account type: current
Balance: 30000.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
1
Enter amount to be deposited:
100
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
3
Enter amount you want to withdraw:
10000
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
2
Balance is: 20100.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
1
Enter amount to be deposited:
200
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
2
Balance is: 20300.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
4
Enter the type of Account:
1:Current account
2:Savings account
```

```
Command Prompt - java bank
2:DisplayBalance
3:Withdraw
4
Enter the type of Account:
1:Current account
2:Savings account
2
Savings account:
Name of the customer: Vijay
Account Number : 68432179
Account type: Savings
Balance: 6000.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
1
Enter the Amount to be Deposited:
200
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
```

Enter the Amount you want to Withdraw:

2

3

2

4

6000

Balance is: 6820.0 Enter your choice 1:Deposit amount 2:DisplayBalance

Enter your choice 1:Deposit amount 2:DisplayBalance

Balance is: 820.0 Enter your choice 1:Deposit amount 2:DisplayBalance

1:Current account
2:Savings account

Enter the type of Account:

3:Withdraw

3:Withdraw

3:Withdraw