```
import java.util.Scanner;
     abstract class Account
         String cust_name;
 4
         long acc no;
         String acc type:
 6
         double balance:
 8
         double min bal = 1000.0;
     Account (String cust name, long acc no, String acc type, double balance)
10
         this.cust name=cust name;
11
12
         this.acc no=acc no;
13
         this.acc_type=acc_type;
         this.balance=balance;
14
15
     abstract void deposit(double amount);
16
17
     abstract void display();
18
     abstract void withdrawal(double amount);
19
20
21
     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
             System.out.println("Account type: "+acc type);
29
             System.out.println("Balance: "+balance);
30
31
32
         void deposit(double amount)
34
             this.balance = this.balance+amount;
35
36
37
38
         void withdrawal(double amount)
39
```

```
38
         void withdrawal(double amount)
40
             this.balance = this.balance-amount;
             imposepenalty():
             System.out.println("The current balance is "+balance);
44
         void imposepenalty()
45
             if(this.balance<min bal)
48
                 this.balance=this.balance-penalty;
                 System.out.println("The balance amount is insufficient, the penalty imposed = 100Rs");
         void display()
54
             System.out.println("Balance is: " + this.balance);
     class Sav acct extends Account
60
         Sav acct(String cust name, long acc no.String acc type,double balance)
             super(cust name, acc no, acc type, balance);
             System.out.println("Name of the customer: "+cust name);
63
             System.out.println("Account Number : "+acc no);
64
             System.out.println("Account type: "+acc type);
             System.out.println("Balance: "+balance);
         void deposit(double amount)
68
             this.balance = this.balance+amount;
70
71
             interest();
         void interest()
74
            int rate=10, time=1;
            float ci=(float)(this.balance*Math.pow(1+rate/100.0,time)-this.balance);
            System.out.println("The interest amount added to balance is "+ci);
```

```
this.balance=this.balance+ci;
 78
 79
 80
          void withdrawal(double amount)
 81
 82
              this.balance=this.balance-amount;
 83
              System.out.println("The current balance is "+balance);
 84
85
          void display()
 86
 87
              System.out.println("Balance is: " +this.balance);
 88
 89
 90
      class AccountMain
 91
92
          Run | Debug
          public static void main(String[] args)
 93
 94
              Scanner xx = new Scanner(System.in);
 95
              Double amount;
 96
 97
              int flag = 0;
              while( flag == 0)
 98
 99
                  System.out.println("Enter the type of Account:\n1:Current account\n2:Savings account");
100
                  int choice=xx.nextInt();
101
                  switch(choice)
102
103
104
                      case 1:System.out.println("\nCurrent account:\n");
                      System.out.println("Enter the name of account holder");
105
                      String f=xx.next();
106
                      System.out.println("Enter the account number");
107
108
                       long g=xx.nextLong();
                      System.out.println("Enter the balance amount");
109
                      double h=xx.nextDouble();
110
111
112
                      Curr_acct c = new Curr_acct(f,g,"current",h);
113
                      int flag1 = 0;
114
                      while( flag1 == 0)
115
```

```
System.out.println("Enter your choice\n1:Deposit amount\n2:DisplayBalance\n3:Withdraw");
116
117
                          int choice1= xx.nextInt();
118
                          switch (choice1)
119
120
                              case 1:
                              System.out.println("Enter amount to be deposited:");
121
122
                              amount = xx.nextDouble();
123
                              c.deposit(amount);
124
                              break;
125
126
                              case 2:
127
                              c.display();
128
                              break;
129
130
                              case 3:
                              System.out.println("Enter amount you want to withdraw:");
131
                              amount = xx.nextDouble();
132
133
                              c.withdrawal(amount);
134
                              break;
135
136
                              default:
137
                              flag1 = 1;
138
139
140
                      break:
                      case 2:System.out.println("\nSavings account:\n");
141
                      System.out.println("Enter the name of account holder");
142
143
                      String p=xx.next();
144
                      System.out.println("Enter the account number");
145
                      long q=xx.nextLong();
                      System.out.println("Enter the balance amount");
146
                      double r=xx.nextDouble();
147
                      Sav acct s = new Sav acct(p,q,"Savings",r);
148
                      int flag2 = 0;
149
150
                      while(flag2 == 0)
151
                          System.out.println("Enter your choice\n1:Deposit amount\n2:DisplayBalance\n3:Withdraw");
152
153
                          int choice2 = xx.nextInt();
154
                          switch (choice2)
```

```
break:
140
                      case 2:System.out.println("\nSavings account:\n");
141
                      System.out.println("Enter the name of account holder");
142
143
                      String p=xx.next();
                      System.out.println("Enter the account number");
144
                      long q=xx.nextLong();
145
                      System.out.println("Enter the balance amount");
146
                      double r=xx.nextDouble();
147
                      Sav acct s = new Sav acct(p,q, "Savings",r);
148
                      int flag2 = 0:
149
                      while(flag2 == 0)
150
151
152
                          System.out.println("Enter your choice\n1:Deposit amount\n2:DisplayBalance\n3:Withdraw");
153
                          int choice2 = xx.nextInt();
                          switch (choice2)
154
155
                             case 1:System.out.println("Enter amount to be deposited:");
156
                             amount = xx.nextDouble();
157
                             s.deposit(amount);
158
159
                             break;
160
                             case 2:
                             s.display();
161
                             break;
162
163
                             case 3:
                             System.out.println("Enter amount you want to withdraw:");
164
                             amount = xx.nextDouble();
165
                             s.withdrawal(amount);
166
167
                             break;
                             default:
168
                             flag2 =1;
169
170
171
172
                      break:
                      default:flag=1;
173
174
175
176
177
```

```
C:\Users\akki\Desktop\PROJECT WORK>javac bank.java
C:\Users\akki\Desktop\PROJECT WORK>java AccountMain
Enter the type of Account:
1:Current account
2:Savings account
1
Current account:
Enter the name of account holder
Geetika
Enter the account number
873257
Enter the balance amount
50000
Name of the customer: Geetika
Account Number: 873257
Account type: current
Balance: 50000.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
Enter amount to be deposited:
400
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
Balance is: 50400.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
Enter amount you want to withdraw:
600
The current balance is 49800.0
Enter your choice
1:Deposit amount
```

```
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
Balance is: 49800.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
Enter the type of Account:
1:Current account
2:Savings account
Savings account:
Enter the name of account holder
Mili
Enter the account number
926346
Enter the balance amount
8000
Name of the customer: Mili
Account Number: 926346
Account type: Savings
Balance: 8000.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
Enter amount to be deposited:
The interest amount added to balance is 840.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
Balance is: 9240.0
Enter your choice
1:Deposit amount
```

```
Enter the name of account holder
Mili
Enter the account number
926346
Enter the balance amount
8000
Name of the customer: Mili
Account Number: 926346
Account type: Savings
Balance: 8000.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
Enter amount to be deposited:
400
The interest amount added to balance is 840.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
Balance is: 9240.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
Enter amount you want to withdraw:
The current balance is 8640.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
Enter the type of Account:
1:Current account
2:Savings account
8
```