

Week8\_extra\_2.java Week\_8\_lab4.java Bank.java Week6\_3.java lp3\_2.java lp3\_1.java lp4.java Week\_8\_lab4

```
1 package com.company;
2 import java.util.*;
3 class Account{
4     String cust_name;
5     int acc_num;
6     String acc_type;
7     double balance;
8     Scanner s=new Scanner(System.in);
9     void accept(){
10         System.out.println("Customer name:");
11         cust_name=s.nextLine();
12         // System.out.println("Type of account:");
13         // acc_type=s.nextLine();
14         System.out.println("Account number:");
15         acc_num=s.nextInt();
16         System.out.println("Balance amount:");
17         balance=s.nextDouble();
18     }
19     void display(){
20         System.out.println("Customer name : "+cust_name);
21         // System.out.println("Type of account : "+acc_type);
22         System.out.println("Account number : "+acc_num);
23         System.out.println("Balance amount : "+balance);
24     }
25     void deposit(){
26         int amt;
27         System.out.println("Enter the amount to be deposited:");
```

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Week8_extra_2.java x Week_8_lab4.java x Bank.java x Week6_3.java x lp3_2.java x lp3_1.java x lp4.java x Week6_7.java x
27     System.out.println("Enter the amount to be deposited:");
28     amt=s.nextInt();
29     balance=balance+amt;
30 }
31 }
32 class Savings_acc extends Account{
33     double inter;
34     double comp_inter(){
35         int time;
36         int rate=10;
37         System.out.println("Enter the time:");
38         time=s.nextInt();
39         inter= balance*Math.pow(1+(double) rate/100,time);
40         return inter;
41     }
42     void update_balance(){ balance=balance+comp_inter(); }
43     void withdrawal(){
44         int amount;
45         System.out.println("Enter the amount to be withdrawn:");
46         amount=s.nextInt();
47         if (balance>=amount){
48             balance=balance-amount;
49         }
50         else{
51             System.out.println("The amount cannot be withdrawn as there is no sufficient balance");
52         }
53     }
54 }
55 }
```



```
Week8_extra_2.java x Week_8_lab4.java Bank.java Week6_3.java lp3_2.java lp3_1.java lp4.java
55     }
56 }
57 class Current_acc extends Account{
58     boolean check_book;
59     int penalty=50;
60     double m_bal=500;
61     void min_bal(){
62         // int ret=1;
63         if (balance<=m_bal){
64             balance=balance-penalty;
65             System.out.println("Penalty is imposed as the balance is less than 500");
66             // ret=0;
67         }
68         else{
69             System.out.println("No penalty is imposed");
70         }
71         // return ret;
72     }
73     void withdrawal(){
74         int amt;
75         System.out.println("Enter the amount to be withdrawn:");
76         amt=s.nextInt();
77         if (balance-amt>m_bal){
78             if (balance>=amt){
79                 balance=balance-amt;
80             }
81             else {
```

```
for Build Run Tools VCS Window Help firstJavaProgram - Bank.java
va Current_acc withdrawal
Week8_extra_2.java Week_8_lab4.java Bank.java Week6_3.java lp3_2.java lp3_1.java lp4.java Week6_7.java
82 System.out.println("The amount cannot be withdrawn as there is no enough amount");
83 }
84 }
85 else{
86 System.out.println("The penalty will be "+penalty+" if the balance after withdrawal is less than" +
87 | the minimum balance");
88 balance=balance-amt;
89 min_bal();
90 }
91 }
92 }
93 public class Bank {
94 public static void main(String[] args){
95 Scanner sc=new Scanner(System.in);
96 Savings_acc s=new Savings_acc();
97 Current_acc c=new Current_acc();
98 System.out.println("Press 1 for savings and 2 for current account:");
99 int ch=sc.nextInt();
100 if (ch==1){
101 s.acc_type="savings";
102 s.accept();
103 s.display();
104 System.out.println("Type of account : "+s.acc_type);
105 s.deposit();
106 s.display();
107 System.out.println("Type of account : "+s.acc_type);
108 s.update_balance();
109 }
```



```
Week8_extra_2.java x Week_8_lab4.java x Bank.java x Week6_3.java x lp3_2.java x lp3_1.java x lp4.java x Week6_7.java x
108 s.update_balance();
109 s.display();
110 System.out.println("Type of account : "+s.acc_type);
111 s.withdrawal();
112 s.display();
113 System.out.println("Type of account : "+s.acc_type);
114 }
115 else if (ch==2){
116     c.acc_type="current";
117     c.accept();
118     c.display();
119     System.out.println("Type of account : "+c.acc_type);
120     c.deposit();
121     c.display();
122     System.out.println("Type of account : "+c.acc_type);
123     c.min_bal();
124     c.display();
125     System.out.println("Type of account : "+c.acc_type);
126     c.withdrawal();
127     c.display();
128     System.out.println("Type of account : "+c.acc_type);
129 }
130 else{
131     System.out.println("Please input a valid number");
132 }
133 }
134 }
```

Press 1 for savings and 2 for current account:

2

Customer name:

Jahnavi

Account number:

12345678

Balance amount:

1000

Customer name : Jahnavi

Account number : 12345678

Balance amount : 1000.0

Type of account : current

Enter the amount to be deposited:

100

Customer name : Jahnavi

Account number : 12345678

Balance amount : 1100.0

Type of account : current

Enter the amount to be withdrawn:

500

Customer name : Jahnavi

Account number : 12345678

Balance amount : 600.0

Type of account : current

Process finished with exit code 0

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