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1  import java.util.*;
2  class Account
3  {
4      String name,type;
5      int acc_no;
6      double amount;
7      Scanner in=new Scanner(System.in);
8      void type(int choice)
9      {
10         if(choice==1)
11             type="Savings Account";
12         if(choice==2)
13             type="Current Account";
14     }
15     void input()
16     {
17         System.out.println("Enter the Name,Account number and Balance:");
18         name=in.next();
19         acc_no=in.nextInt();
20         amount=in.nextDouble();
21     }
22     void deposit()
23     {
24         System.out.println("Enter the amount to be deposited:");
25         double x=in.nextDouble();
26         amount=amount+x;
27     }
28     void display()
29     {
30         System.out.println("Name:"+name);
31         System.out.println("Account number:"+acc_no);
32         System.out.println("Type:"+type);
33         System.out.println("balance:"+amount);
34     }
35 }
36 class Savings_acc extends Account
37 {
38     double a,cinterest;
39     int r,t;
40     Scanner in=new Scanner(System.in);
41     void withdrawal()
42     {
43         System.out.println("Enter amount to be withdrawn:");
44         double amtw=in.nextDouble();
45         if(amtw<=amount)

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44         double amtW=in.nextDouble();
45         if(amtW<=amount)
46             amount=amount-amtW;
47         else
48             System.out.println("Invalid amount");
49     }
50     void cmp_interest()
51     {
52         System.out.println("Enter the rate and time:");
53         r=in.nextInt();
54         t=in.nextInt();
55         a=amount* Math.pow(1 + (r *0.01),t);
56         cinterest= a - amount;
57     }
58     void display()
59     {
60         super.display();
61         System.out.println("Compound Interest after " + t + " years: "+cinterest);
62         System.out.println("Amount after " + t + " years: "+a);
63     }
64 }
65 }
66 class Current_acc extends Account
67 {
68     double min=10000;
69     void input()
70     {
71         super.input();
72     }
73     void service_charge()
74     {
75         if(amount<min)
76             amount=amount-500;
77     }
78     void display()
79     {
80         super.display();
81     }
82 }
83 public class bankdemo
84 {
85     public static void main(String args[])
86     {
87         Scanner in=new Scanner(System.in);
88         System.out.println("Choose type of account.");
89         System.out.println("1.Savings account.");
90         System.out.println("2.Current account.");

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90         System.out.println("2.Current account.");
91         int choice=in.nextInt();
92
93         if(choice==1)
94         {
95             Savings_acc b=new Savings_acc();
96             b.type(choice);
97             b.input();
98             System.out.println("Do you want to deposit or withdraw?\n1.Deposit.\n2.Withdraw\n");
99             int ch=in.nextInt();
100             if(ch==1)
101                 b.deposit();
102             else if(ch==2)
103                 b.withdrawal();
104             else
105                 System.out.println("Invalid choice");
106             b.cmp_interest();
107             b.display();
108         }
109         else if(choice==2)
110         {
111             Current_acc b=new Current_acc();
112             b.type(choice);
113             b.input();
114             b.deposit();
115             b.service_charge();
116             b.display();
117         }
118         else
119             System.out.println("Invalid choice");
120     }
121 }
122 }

```

compiled and executed in 83.184 sec(s)

Choose type of account.

1.Savings account.

2.Current account.

1

Enter the Name,Account number and Balance:

deepthi

457896

45000

Do you want to deposit or withdraw?

1.Deposit.

2.Withdraw

1

Enter the amount to be deposited:

85000

Enter the rate and time:

10

3

Name:deepthi

Account number:457896

Type:Savings Account

balance:130000.0

Compound Interest after 3 years: 43030.000000000006

Amount after 3 years: 173030.000000000006