

```
1 import java.util.*;
2 class account{
3     String cus_name;
4     int acc_num;
5     String acc_type;
6     account(String cus_name, int acc_num, String acc_type){
7         this.cus_name=cus_name;
8         this.acc_num=acc_num;
9         this.acc_type=acc_type;
10    }
11    void display(){
12        System.out.println("Details of the customer are: \n"    +cus_name    +acc_num    +acc_type);
13    }
14 }
15 class curr_acct extends account{
16     int amt;
17     int balance;
18     curr_acct(String cus_name, int acc_num, String acc_type){
19         super(cus_name,acc_num,acc_type);
20     }
21     void display(){
22         Scanner in = new Scanner(System.in);
23         System.out.println("Checkbook facility available");
24         System.out.println("Enter initial amount: ");
25         balance=in.nextInt();
26         System.out.println("press 1 for withdrawal\n press 2 for deposit");
27         int choice=in.nextInt();
28         if(choice==1){
29             System.out.println("Enter the amount to be withdrawn: ");
30             amt=in.nextInt();
31             System.out.println("withdrawal of amount "+amt+" was successful");
32             balance=balance-amt;
33             System.out.println("Remaining balance: "+balance);
34         }
35         else if(choice==2){
36             System.out.println("Enter the amount to be added: ");
37             amt=in.nextInt();
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37 amt=in.nextInt();
38 System.out.println("Amount "+amt+" added successfully");
39 balance=balance+amt;
40 System.out.println("Remaning balance: "+balance);
41 }
42 if(balance<1000){
43 balance=balance-100;
44 System.out.println("Service charge of Rs. 100 is imposed\n remaining balance: "+balance);
45 }
46 }
47
48 }
49 class sav_acct extends account{
50 int amt;
51 int balance;
52 sav_acct(String cus_name, int acc_num, String acc_type){
53 super(cus_name,acc_num,acc_type);
54 }
55 void display(){
56 Scanner in = new Scanner(System.in);
57 System.out.println("Checkbook facility not available");
58 System.out.println("Enter initial amount: ");
59 balance=in.nextInt();
60 System.out.println("press 1 for withdrawal\n press 2 for deposit");
61 int choice=in.nextInt();
62 if(choice==1){
63 System.out.println("Enter the amount to be withdrawn: ");
64 amt=in.nextInt();
65 System.out.println("withdrawal of amount "+amt+" was successful");
66 balance=balance-amt;
67 System.out.println("Remaining balance: "+balance);
68 }
69 else if(choice==2){
70 System.out.println("Enter the amount to be added: ");
71 amt=in.nextInt();
72 System.out.println("Amount "+amt+" added successfully");
73 balance=balance+amt;
74 System.out.println("Remaning balance: "+balance);
75 }
76 if(balance<1000){
77 balance=balance-100;
78 System.out.println("Service charge of Rs. 100 is imposed\n remaining balance: "+balance);
79 }
80 double interest=(balance*1*5)/100;
81 System.out.println("The interest for 1 year is: "+interest);
82 }
83 }

```



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65 System.out.println("Withdrawal of amount "+amt+" was successful");
66 balance=balance-amt;
67 System.out.println("Remaining balance: "+balance);
68 }
69 else if(choice==2){
70 System.out.println("Enter the amount to be added: ");
71 amt=in.nextInt();
72 System.out.println("Amount "+amt+" added successfully");
73 balance=balance+amt;
74 System.out.println("Remaning balance: "+balance);
75 }
76 if(balance<1000){
77 balance=balance-100;
78 System.out.println("Service charge of Rs. 100 is imposed\n remaining balance: "+balance);
79 }
80 double interest=(balance*1*5)/100;
81 System.out.println("The interest for 1 year is: "+interest);
82 }
83 }
84 public class lab4_bank{
85 public static void main(String args[]){
86 Scanner in = new Scanner(System.in);
87 for(;;){
88 System.out.println("Enter customer name: ");
89 String name=in.nextLine();
90 System.out.println("Enter the account type: ");
91 String type=in.nextLine();
92 System.out.println("Enter account number: ");
93 int num=in.nextInt();
94 account acc = new account(name,num,type);
95 curr_acct curr=new curr_acct(name,num,type);
96 sav_acct sav = new sav_acct(name,num,type);
97 account ac;
98 acc.display();
99 if(type.equals("current")){
100 ac=curr;
101 ac.display();
102 }
103 else if(type.equals("savings")){
104 ac=sav;
105 ac.display();
106 }
107 }
108 }
109 }

```

Result

compiled and executed in 120.611 sec(s)

Enter customer name:

prithvi

Enter the account type:

savings

Enter account number:

2136786

Details of the customer are:

prithvi2136786savings

Checkbook facility not available

Enter initial amount:

8000

press 1 for withdrawal

press 2 for deposit

1

Enter the amount to be withdrawn:

1000

withdrawal of amount 1000 was successful

Remaining balance: 79000

The interest for 1 year is: 3950.0