

C:\java lab\bank.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

bookMain.java x count1.java x course.java x item.java x or.v x BUBSORT.ASM x quad.java x array4.java x inheritance_1.java x shape_area.java x bank.java x

```
1  import java.util.Scanner;
2  class account
3  {
4      private String name;
5      private long account_number;
6      private int account_type;
7      double balance;
8      void get_data()
9      {
10         Scanner ss=new Scanner(System.in);
11         System.out.println("Enter your Name");
12         name = ss.next();
13         System.out.println("Enter the account Number");
14         account_number=ss.nextLong();
15         System.out.println("Choose the account type:\n1.savings account\n2.current account");
16         account_type=ss.nextInt();
17     }
18     int return_account_type()
19     {
20         return account_type;
21     }
22 }
23 class savings extends account
24 {
25     Scanner ss=new Scanner(System.in);
26     double amount;
27     void get_sav_balance()
28     {
29         System.out.println("Enter the Amount to be placed in your Savings Account");
30         amount=ss.nextDouble();
31         balance+=amount;
32     }
33     void display_sav_blnce()
34     {
35         System.out.println("balance= "+balance);
36     }
37     void compute_sav_interest()
38     {
39         System.out.println("\nCalculating Compound Interest");
40         System.out.print("Enter annual interest rate: ");
41         float rate = ss.nextFloat();
```

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```
System.out.print("Enter time in years: ");
float time = ss.nextFloat();
System.out.println("Enter principle: ");
float principle = ss.nextFloat();
float CI = (float)((principle*(Math.pow((1 + rate / 100),time)))-principle);
System.out.println("The Compound Interest is: " +CI);
}
void withdrawl_sav()
{
    System.out.println("Enter the amount to be withdrawn");
    amount = ss.nextDouble();
    balance=balance-amount;
}
}
class current extends account
{
    Scanner ss = new Scanner(System.in);
    double amount;
    final double min_balance=500;
    void get_cur_balance()
    {
        System.out.println("Enter the amount to be placed in your current account");
        amount=ss.nextDouble();
        balance+=amount;
    }
    void display_cur_blnce()
    {
        System.out.println("Balance = "+balance);
    }
    void compute_cur_service_charges()
    {
        if(balance<min_balance)
        {
            System.out.println("service tax of rs.100 shall be levied");
            balance=balance-100;
        }
        else
        {
            System.out.println("Minimum balance is Maintained");
        }
    }
}
```

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```
82     }
83     void withdrawl_cur()
84     {
85         System.out.println("Enter the amount to be withdrawn");
86         amount=ss.nextDouble();
87         balance=balance-amount;
88     }
89 }
90 class bank_main
91 {
92     public static void main(String args[])
93     {
94         Scanner ss = new Scanner(System.in);
95         int type;
96         System.out.println("Enter the bank details");
97         account acc=new account();
98         acc.get_data();
99         type=acc.return_account_type();
100         if (type==1)
101         {
102             System.out.println("SAVINGS ACCOUNT");
103             savings sav = new savings();
104             sav.get_sav_balance();
105             sav.display_sav_blnce();
106             System.out.println("Do you want to calculate Interest or not:\nIf yes press 1 else 0");
107             int ch = ss.nextInt();
108             if (ch == 1)
109             {
110                 sav.compute_sav_interest();
111             }
112             sav.display_sav_blnce();
113             sav.withdrawl_sav();
114             sav.display_sav_blnce();
115         }
116         if(type==2)
117         {
118             System.out.println("CURRENT ACCOUNT");
119             current cur=new current();
120             cur.get_cur_balance();
121             cur.display_cur_blnce();
122             cur.compute cur service charges();
```

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```
88     }
89 }
90 class bank_main
91 {
92     public static void main(String args[])
93     {
94         Scanner ss = new Scanner(System.in);
95         int type;
96         System.out.println("Enter the bank details");
97         account acc=new account();
98         acc.get_data();
99         type=acc.return_account_type();
100         if (type==1)
101         {
102             System.out.println("SAVINGS ACCOUNT");
103             savings sav = new savings();
104             sav.get_sav_balance();
105             sav.display_sav_blnce();
106             System.out.println("Do you want to calculate Interest or not:\nIf yes press 1 else 0");
107             int ch = ss.nextInt();
108             if (ch == 1)
109             {
110                 sav.compute_sav_interest();
111             }
112             sav.display_sav_blnce();
113             sav.withdrawl_sav();
114             sav.display_sav_blnce();
115         }
116         if(type==2)
117         {
118             System.out.println("CURRENT ACCOUNT");
119             current cur=new current();
120             cur.get_cur_balance();
121             cur.display_cur_blnce();
122             cur.compute_cur_service_charges();
123             cur.display_cur_blnce();
124             cur.withdrawl_cur();
125             cur.display_cur_blnce();
126         }
127     }
128 }
```

C:\Users\arpit>cd..

C:\Users>cd..

C:\>cd java lab

C:\java lab>javac bank.java

C:\java lab>java bank_main

Enter the bank details

Enter your Name

abc

Enter the account Number

123

Choose the account type:

1.savings account

2.current account

2

CURRENT ACCOUNT

Enter the amount to be placed in your current account

1000

Balance = 1000.0

Minimum balance is Maintained

Balance = 1000.0

Enter the amount to be withdrawn

976

Balance = 24.0

C:\java lab>_