```
import java.util.*;
2
    class Account
3
     1
4
         String name;
5
         int accno;
6
         String type;
7
         double balance;
         Scanner sc=new Scanner(System.in);
8
         void accept()
9
10
            System.out.println("enter name");
11
            name=sc.next();
12
            System.out.println("enter accno");
13
             accno=sc.nextInt();
14
15
          1
16
17
18
     class Curr acct extends Account
19
20
          double deposit:
21
          double withdraw;
22
          double min bal = 1000;
23
          int penalty = 100;
24
          Scanner sc=new Scanner(System.in);
25
          void accept1()
26
27
          ł
              System.out.println("enter the balance");
28
             balance=sc.nextDouble();
29
30
          void update()
31
32
          System.out.println("enter the deposit");
33
          deposit=sc.nextDouble();
34
          balance = deposit;
35
          System.out.println("balance got updated to:"+balance);
36
37
38
      void check()
39
          if(balance<min_bal)
40
41
              System.out.println("a penalty of 100 is imposed");
 42
               balance-penalty;
 43
              System.out.println("balance got updated to:" balance);
 44
 45
 46
 47
      void withdrawal()
 48
```

```
System.out.println(" enter amt to be withdrawn");
   withdraw=sc.nextDouble();
   balance-withdraw;
   System.out.println("balance got updated to:"+balance);
   check();
void display()
   System.out.println("-----");
   System.out.println("name:"+name);
   System.out.println("accno:"+accno);
   System.out.println("type:"+type);
   if(balance(0)
   System.out.println("balance:0");
   System.out.println("money to be deposited:"+(-balance));
)
else
   System.out.println("balance:"+balance);
   System.out.println("cheque book facility exist");
}
class sav_acct extends Account
   double balance;
   double deposit;
   double withdraw;
   double interest, time, rate;
   Scanner sc=new Scanner(System.in);
   void accept1()
       System.out.println("enter the balance");
      balance=sc.nextDouble();
   void update()
   System.out.println("enter the deposit");
   deposit=sc.nextDouble();
   balance+=deposit;
   System.out.println("balance got updated to: "+balance);
```

```
void calcinterest()
   System.out.println("a rate of 4.5% is given for deposits in savings bank acc");
   System.out.println("enter the time duration for which interest to be calc");
   time=sc.nextDouble();
    rate=4.5;
   double x,y;
   x=(1+rate/100);
   belence=belance*(Math.pow(x,time));
   void withdrawal()
€
   System.out.println(" enter amt to be withdrawn");
   withdraw=sc.nextDouble();
   balance-withdraw;
   System.out.println("balance got updated to:"+balance);
void display()
   System.out.println("-----");
   System.out.println("name:"+name);
   System.out.println("accno:"+accno);
   System.out.println("type:"+type);
   calcinterest();
    if(balance(0)
   System.out.println("balance:0");
   System.out.println("money to be deposited:"+(-balance));
3
else
System.out.printf("balance:%.3f",balance);
System.out.println():
System.out.println("cheque book does not facility exist");
ł
```

```
Ŧ
class Bank
    public static void main(String args[])
    ł
        int op, ch;
        Scanner sc=new Scanner(System.in);
        System.out.println("1.curr_Acct \n2.sav acct");
        System.out.println("enter the type");
        op=sc.nextInt();
        if(op=1)
            Curr_acct a=new Curr_acct();
            a.type="curr Acct";
            a.accept();
            a.accept1();
            do
            System.out.println("1.deposit 2.withdrawal 3.exit");
            System.out.println("enter your choice");
            ch=sc.nextInt();
            switch(ch)
            case 1:
            a.update();
            break
            case 2:
            a.withdrawal();
            break
            case 3:
            a.display();
            break
            default:
            System.out.println("wrong choice");
        }while(ch!=3);
    if(op==2)
            sav_acct b=new sav_acct();
            b.type="sav_Acct";
            b.accept();
            b.accept1();
```

```
b.type="sav_Acct";
b.accept();
b.accept1();
do(
    System.out.println("1.deposit 2.withdrawal 3.exit");
    System.out.println("enter your choice");
    ch=sc.nextInt();
    switch(ch)
{
    case 1:
185
186
187
188
189
190
191
192
                                        case 1:
b.update();
193
194
195
196
197
                                        break;
case 2:
b.withdrawal();
                                        break;
case 3:
b.display();
break;
default:
198
199
200
201
202
203
204
205
206
207
208
                                        System.out.println("wrong choice");
                                }while(ch!=3);
                      1
            1
```

```
Command Prompt - java Bank
C:\workspace>javac Account.java
C:\workspace>java Bank
1.curr_Acct
2.sav acct
enter the type
enter name
Rahu1
enter accno
1500
enter the balance
27000
1.deposit 2.withdrawal 3.exit
enter your choice
enter the deposit
balance got updated to:32000.0
1.deposit 2.withdrawal 3.exit
enter your choice
enter amt to be withdrawn
100000
balance got updated to:-68000.0
a penalty of 100 is imposed
balance got updated to:-68100.0
1.deposit 2.withdrawal 3.exit
enter your choice
```