```java
class account
{
        String name;
        int accno;
        float balance;
        String type;

        account(String name,int accno,String type,float balance)
        {
        this.name=name;
        this.accno=accno;
        this.balance=balance;
        this.type=type;
        }

        void deposit(int amt)
        {
        if(amt>0)
        {
        balance=balance+amt;
        System.out.println("credited amount is "+amt);
        }
        else
        {
        System.out.println("amt must be greater than zero");
        }
        }

        void balance()
        {
        System.out.println("balance in your acc is "+balance);
        }
}
class sav_acc extends account
{       float p,t,r;
        double interest;


        sav_acc(String name,int accno,String type,float balance,float p,float t,float r)
        {
        super(name,accno,type,balance);
        this.p=p;
        this.t=t;
        this.r=r;
        }

        void interest(){
        interest=p*(Math.pow((1+r/100),t)-1);
        balance+=interest;
        System.out.println("interest credited to your account is "+interest);
        }

        void withdrawl(int amt)
        {
```

```java
50          System.out.println("interest credited to your account is "+interest);
51          }
52
53          void withdrawl(int amt)
54          {
55          if(amt>0&& amt<balance)
56          {
57          balance-=amt;
58          System.out.println("amount debited is "+amt);
59          }
60          else
61          {
62          System.out.println("insufficient balance");
63          }
64          }
65 }
66 class cur_acc extends account
67 {
68          float minimum,servicecharge;
69
70          cur_acc(String name,int accno,String type,float balance ,float minimum , float servicecharge)
71          {
72          super(name,accno,type,balance);
73          this.minimum=minimum;
74          this.servicecharge=servicecharge;
75          }
76
77          void withdrawl(int amt)
78          {
79          if(amt>0 && amt<balance)
80          {
81          balance-=amt;
82          System.out.println("debited amount is "+amt);
83          }
84          else
85          {
86          System.out.println("insufficient balance");
87          }
88          }
89
90          void check()
91          {
92          if(balance<minimum)
93          {
94          balance-=servicecharge;
95          System.out.println("service charge applied is "+servicecharge);
96          }
97          }
98 }
99 class bank{
100          public static void main(String args[])
101          {
102          sav_acc savings=new sav_acc("Ankit",1001,"savings account",5400,100,2,50);
103          System.out.println("account holder : "+savings.name +"   account number : "+savings.accno + "   account type :"+sav
104          caving= halance().
```

```java
70          cur_acc(String name,int accno,String type,float balance ,float minimum , float servicecharge)
71          {
72          super(name,accno,type,balance);
73          this.minimum=minimum;
74          this.servicecharge=servicecharge;
75          }
76
77          void withdrawl(int amt)
78          {
79          if(amt>0 && amt<balance)
80          {
81          balance-=amt;
82          System.out.println("debited amount is "+amt);
83          }
84          else
85          {
86          System.out.println("insufficient balance");
87          }
88          }
89
90          void check()
91          {
92          if(balance<minimum)
93          {
94          balance-=servicecharge;
95          System.out.println("service charge applied is "+servicecharge);
96          }
97          }
98 }
99 class bank{
100          public static void main(String args[])
101          {
102          sav_acc savings=new sav_acc("Ankit",1001,"savings account",5400,100,2,50);
103          System.out.println("account holder : "+savings.name +"    account number : "+savings.accno + "  account type :"+sav
104          savings.balance();
105          savings.deposit(300);
106          savings.balance();
107          savings.interest();
108          savings.balance();
109          savings.withdrawl(100);
110          savings.balance();
111
112          cur_acc current =new cur_acc("Ankit",1001,"current account",5400,1000,50);
113          System.out.println("account holder : "+current.name +"  account number : "+current.accno + "  account type :"+curr
114          current.balance();
115          current.deposit(100);
116          current.balance();
117          current.withdrawl(4502);
118          current.balance();
119          current.check();
120          current.balance();
121          }
122 }
123
```

```
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ javac bank.java
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$ java bank
account holder : Ankit   account number : 1001  account type :savings account
balance in your acc is 5400.0
credited amount is 300
balance in your acc is 5700.0
interest credited to your account is 125.0
balance in your acc is 5825.0
amount debited is 100
balance in your acc is 5725.0
account holder : Ankit  account number : 1001  account type :current account
balance in your acc is 5400.0
credited amount is 100
balance in your acc is 5500.0
debited amount is 4502
balance in your acc is 998.0
service charge applied is 50.0
balance in your acc is 948.0
bmscecse@bmscecse-HP-Elite-Tower-800-G9-Desktop-PC:~$
```