```
import java.util.*;
class account
{
 String cust_name;
long acc_no;
double balance;
int type_acc;
void input()
 {
    Scanner sc = new Scanner (System.in);
   System.out.println(" enter account details ");
   System.out.println("Enter customer name");
   cust_name = sc.nextLine();
   System.out.println("Enter customer account
                        number");
      acc_no = sc.nextLong();
 System.out.println("enter customer's account type
      1.Savings account 2.current account");
      type_acc = sc.nextInt();
      System.out.println" enter customer's balance
       amount in account");
      balance = sc.nextDouble();
}
```

```
void deposit()
{
    Scanner sc = new Scanner(System.in);
  double amt;
  System.out.println("Enter amount to be
                      deposited");
   amt = sc.nextDouble();
   balance = balance + amt;
}
}

class Sav_acct extends account
 {
   double interest;
  void compute_interest()
  {
   Scanner sc = new Scanner(System.in);
   int rate, time;
   System.out.println("enter rate and
                       time period");

     rate = sc.nextInt();
   time = sc.nextInt();
```

```
interest = balance * Math.pow(1 + rate/100.0, time) -
                                    balance;
System.out.println("Compound interest = " + interest);
balance = balance + interest;
System.out.println("Customer's balance amount
                    in account \t" + balance);
}
Void withdrawal()
{
  Scanner sc = new Scanner(System.in);
  double with;
  System.out.println("Enter amount to be
                      withdrawn");
  with = sc.nextDouble();
  if (with > balance)
      System.out.println("withdrawal not
      possible due to Insufficient balance");
  else
  {
      balance = balance - with;
    System.out.println("Customer's balance
      amount \t" + balance);
  }
}
```

```
Void check()
{
    double Penalty;
    if (balance < 2000.0)
    {
     Penalty = 200.0;
    balance = balance - Penalty;
    System.out.println("balance amount
    lesser than minimum balance");
    System.out.println("Penalty of Rs.200");
System.out.println("Customer balance amount
    in account is" + balance);
    }
  }
}
class curr_acct extends account
{
    void withdrawal()
    {
```

```
Scanner sc = new Scanner(System.in);
  double with;
System.out.Println("enter amount to be withdrawn");
with = sc.nextDouble();
 if (with > balance)
    System.out.println("withdrawl not possible
    due to insufficiant balance");

else

 {
   balance = balance - with;
System.out.println("Customer's balance amount in
      account \t" + balance);

 }
}

Void vcheck()
 {
    double penalty;
   if (balance < 2000.0)
   {
          penalty = 200.0;
          balance = balance - penalty;
```

```
System.out.println("balance amount lesser than
                    minimum balance");
System.out.println("Penalty of Rs.200");
System.out.println("customer balance amount\t" +
    balance);
}
}
}
class bank
{
    Public static void main(String args[])
    {
    Sav_acct o1 = new Sav_acct();
    Curr_acct02 = new Curr_acct1();
        Scanner sc = new Scanner(System.in);
System.out.println("enter customer's account
    type 1. Savings account 2. current account");
int ch = sc.nextInt();
int n;
if (ch == 1)
{
```

```
o1.input();
o1.display();
System.out.println("enter 1.deposit 2.withdrawal");
n=sc.nextInt();
if(n==1)
    o1.deposit();
if(n==2)
    o1.withdrawal();
    o1.compute_interest();
    o1.check();
}
else if(ch==2)
{
    o2.input();
    o2.display();
    System.out.println("enter 1.deposit 2.withdrawal");
    n=sc.nextInt();
    if(n==1)
        o2.deposit();
    if(n==2)
        o2.withdrawal();
        o2.check()
    }
}
```

```
1
enter customer's balance amount in account
30000
-----customer's account details-----
customer name   karthik
customer account number 34576897
customer's account type 1
customer's balance amount in account    30000.0
enter 1.deposit 2.withdrawal
1
enter amount to be deposited
560
enter rate and time period
2
2
compound interest = 1234.6239999999998
customer's balance amount in account    31794.624


...Program finished with exit code 0
Press ENTER to exit console.
```

```java
import java.util.Scanner;
class account
{
    String cust_name;
    long acc_no;
    double balance;
    int type_acc;
    void input()
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("-----enter account details-----");
        System.out.println("enter customer name ");
        cust_name=sc.nextLine();
        System.out.println("enter customer account number");
        acc_no=sc.nextLong();
        System.out.println("enter customer's account type 1.savings account 2.current account");
        type_acc=sc.nextInt();
        System.out.println("enter customer's balance amount in account");
        balance=sc.nextDouble();
    }
```

```
39 {
40     double interest;
41     void compute_interest()
42     {
43         Scanner sc=new Scanner(System.in);
44         int rate,time;
45         System.out.println("enter rate and time period ");
46         rate=sc.nextInt();
47         time=sc.nextInt();
48         interest=balance*Math.pow(1+rate/100.0,time)-balance;
49         System.out.println("compound interest = "+interest);
50         balance=balance+interest;
51         System.out.println("customer's balance amount in account\t"+balance);
52     }
53     void withdrawal()
54     {
55         Scanner sc=new Scanner(System.in);
56         double with;
57         System.out.println("enter amount to be withdrawn");
58         with=sc.nextDouble();
```

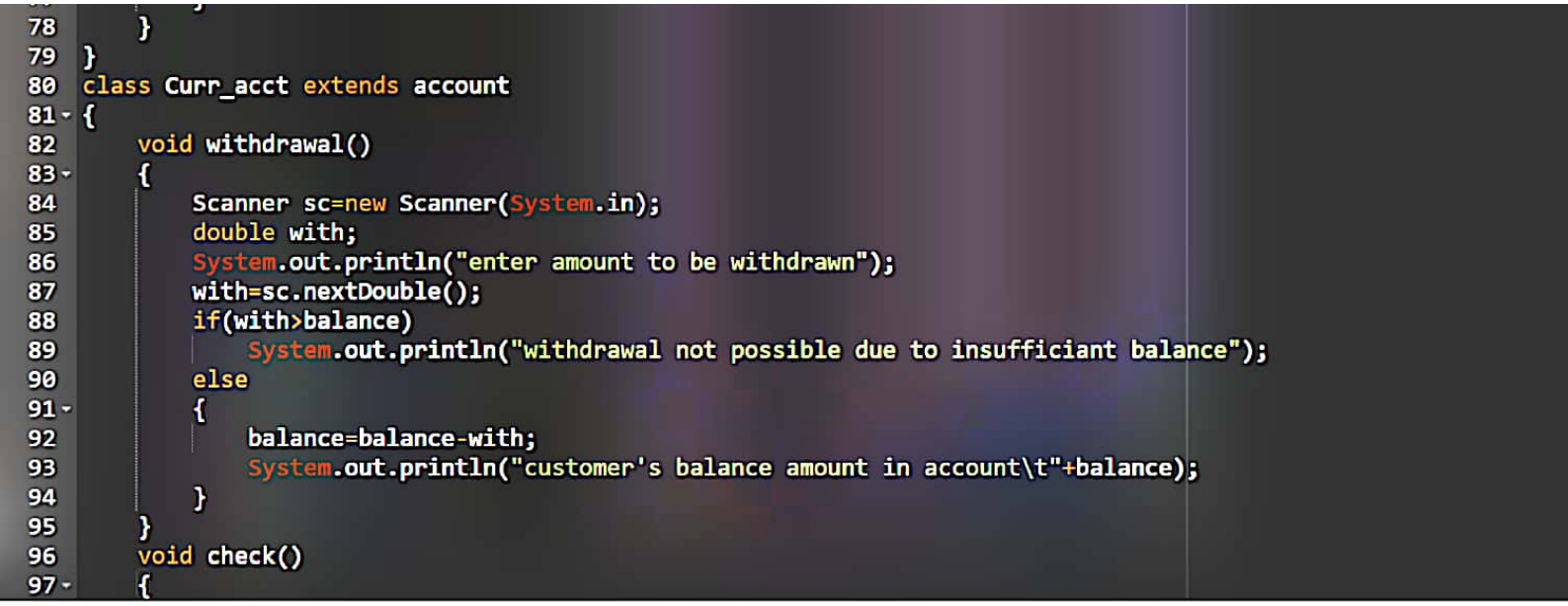
input

```
customer's balance amount in account    31794.624


...Program finished with exit code 0
Press ENTER to exit console.
```

```
    void display()
    {
        System.out.println("-----customer's account details-----");
        System.out.println("customer name\t"+cust_name);
        System.out.println("customer account number\t"+acc_no);
        System.out.println("customer's account type\t"+type_acc);
        System.out.println("customer's balance amount in account\t"+balance);
    }
    void deposit()
    {
            Scanner sc=new Scanner(System.in);
        double amt;
        System.out.println("enter amount to be deposited ");
        amt=sc.nextDouble();
        balance=balance+amt;
    }
}
class Sav_acct extends account
{
    double interest;
```

input

```
omer's balance amount in account    31794.624


rogram finished with exit code 0
 ENTER to exit console.
```



```
78      }
79  }
80  class Curr_acct extends account
81  {
82      void withdrawal()
83      {
84          Scanner sc=new Scanner(System.in);
85          double with;
86          System.out.println("enter amount to be withdrawn");
87          with=sc.nextDouble();
88          if(with>balance)
89              System.out.println("withdrawal not possible due to insufficiant balance");
90          else
91          {
92              balance=balance-with;
93              System.out.println("customer's balance amount in account\t"+balance);
94          }
95      }
96      void check()
97      {
```

```
57          System.out.println("enter amount to be withdrawn");
58          with=sc.nextDouble();
59          if(with>balance)
60              System.out.println("withdrawal not possible due to insufficiant balance");
61          else
62          {
63              balance=balance-with;
64              System.out.println("customer's balance amount in account\t"+balance);
65          }
66      }
67      void check()
68      {
69          double penalty;
70          if(balance<2000.0)
71          {
72              penalty=200.0;
73              balance=balance - penalty;
74              System.out.println("balance amount lesser than minimum balance");
75              System.out.println("penalty of Rs.200");
76              System.out.println("customer's balance amount in account\t"+balance);
```

input

```
customer's balance amount in account    31794.624


...Program finished with exit code 0
Press ENTER to exit console.
```

```
int ch=sc.nextInt();
int n;
if(ch==1)
{
    o1.input();
    o1.display();
    System.out.println("enter 1.deposit 2.withdrawal");
    n=sc.nextInt();
    if(n==1)
        o1.deposit();
    if(n==2)
        o1.withdrawal();
    o1.compute_interest();
    o1.check();
}
else if(ch==2)
{
    o2.input();
    o2.display();
    System.out.println("enter 1.deposit 2.withdrawal");
    n=sc.nextInt();
```

input

```
customer's balance amount in account    31794.624


...Program finished with exit code 0
Press ENTER to exit console.
```

```
        double penalty;
        if(balance<2000.0)
        {
            penalty=200.0;
            balance=balance - penalty;
            System.out.println("balance amount lesser than minimum balance");
            System.out.println("penalty of Rs.200");
            System.out.println("customer's balance amount in account\t"+balance);
        }
    }
}
class Main
{
    public static void main(String args[])
    {
    Sav_acct o1=new Sav_acct();
    Curr_acct o2=new Curr_acct();
        Scanner sc=new Scanner(System.in);
    System.out.println("enter customer's account type 1.savings account 2.current account");
    int ch=sc.nextInt();
```

```
mer's balance amount in account    31794.624


ogram finished with exit code 0
 ENTER to exit console.
```

```
128             o1.withdrawal();
129         o1.compute_interest();
130         o1.check();
131     }
132     else if(ch==2)
133     {
134         o2.input();
135         o2.display();
136         System.out.println("enter 1.deposit 2.withdrawal");
137         n=sc.nextInt();
138         if(n==1)
139             o2.deposit();
140         if(n==2)
141             o2.withdrawal();
142         o2.check();
143     }
144
145 }
146 }
147
```