

```

1  import java.util.Scanner;
2  import java.lang.Math;
3
4  class Account
5  {
6      String cus_name;
7      String acc_no;
8      String acc_type;
9      double balance;
10 }
11
12 class curr_acc extends Account
13 {
14     Scanner in = new Scanner(System.in);
15     double min_bal;
16     double ser_charge;
17
18     curr_acc()
19     {
20         System.out.println("Enter the customer name :");
21         cus_name = in.nextLine();
22         System.out.println("Enter the account number :");
23         acc_no = in.nextLine();
24         System.out.println("Enter the balance: ");
25         balance = in.nextDouble();
26     }
27
28     void min()
29     {
30         System.out.println("Enter the minimum balance to be maintained :");
31         min_bal = in.nextDouble();
32         System.out.println("Enter the service charge to be imposed (in %) if minimum balance is not present :");

```

length: 4,383 lines: 196 Ln: 18 Col: 11 Sel: 0|0 Windows (CR LF)

```

min_bal = in.nextDouble();
System.out.println("Enter the service charge to be imposed (in %)if minimum balance in not present :");
ser_charge = in.nextDouble();

if(balance<min_bal)
{
    System.out.println("Balance less than min_bal and service charge imposed :");
    balance = balance-(ser_charge*0.01*balance);
    System.out.println("Balance after service charge is imposed :"+balance);
}

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

void withdraw()
{
    double amt;
    System.out.println("Enter the amount to be withdrawn :");
    amt = in.nextDouble();

    if(balance>=amt)
    {
        balance = balance-amt;
        System.out.println("Balance after withdrawl: "+balance);
    }
    else

```

source file

length: 4,383 lines: 196

Ln: 18 Col: 11 Sel: 0|0

Windows (CR LF) UTF-8


```
62     else
63     {
64         System.out.println("Amount cannot be withdrawn");
65     }
66 }
67 void dis()
68 {
69     System.out.println("Balance : "+balance);
70 }
71 }
72
73
74 class sav_acc extends Account
75 {
76     Scanner in = new Scanner(System.in);
77
78     sav_acc()
79     {
80         System.out.println("Enter the customer name :");
81         cus_name = in.nextLine();
82         System.out.println("Enter the account number :");
83         acc_no = in.nextLine();
84         System.out.println("Enter the balance :");
85         balance = in.nextDouble();
86     }
87
88     void cmpInt()
89     {
90         double cpint;
91         System.out.println("Enter the rate(%) of compound intrrest :");
92         int r = in.nextInt();
93         System.out.println("Enter m=12 if compounded monthly m=1 if compounded yearly : ");
94     }
95 }
```

Java source file length: 4,383 lines: 196 Ln: 18 Col: 11 Sel: 0|0

```

93 System.out.println("Enter m=12 if compounded monthly m=1 if compounded yearly : ");
94 int m = in.nextInt();
95 System.out.println("Enter the time elapsed in year :");
96 int t = in.nextInt();
97
98 cpint= Math.pow((1+((r*0.01)/m)),t);
99 balance = balance*cpint;
100 System.out.println("compound interest :"+cpint);
101 System.out.println("Balance after computing compound interest :"+balance);
102 }
103
104 void deposit()
105 {
106 double amt;
107 System.out.println("Enter the amount to be deposited :");
108 amt = in.nextDouble();
109 balance=balance+amt;
110 }
111
112 void withdraw()
113 {
114 double amt;
115 System.out.println("Enter the amount to be withdrawn :");
116 amt = in.nextDouble();
117
118 if(balance>=amt)
119 {
120 balance = balance-amt;
121 System.out.println("Balance after withdrawl: "+balance);
122 }
123 else
124 {

```

```

    }
    else
    {
        System.out.println("Amount cannot be withdrawn");
    }
}

void dis()
{
    System.out.println("Balance : "+balance);
}
}

class Bank
{
    public static void main(String args[])
    {
        Scanner in = new Scanner(System.in);
        System.out.println("Enter the type of account you want to opt 1:CURRENT ACCOUNT 2:SAVINGS ACCOUNT :");
        int type = in.nextInt();

        if(type == 1)
        {
            curr_acc a1 = new curr_acc();
            while(true)
            {
                System.out.println("Enter any option \n"+"1 : DEPOSIT\n"+"2 : DISPLAY\n"+"3 : WITHDRAW\n"+"4 : SERVICE CHARGE\n");
                int ch = in.nextInt();
                switch(ch)
                {

```



```

151 int ch = in.nextInt();
152 switch(ch)
153 {
154     case 1 : a1.deposit();
155             break;
156     case 2 : a1.dis();
157             break;
158     case 3 : a1.withdraw();
159             break;
160     case 4 : a1.min();
161             break;
162     default : System.out.println("Enter valid option");
163             System.exit(0);
164 }
165 }
166 }
167
168 else
169 {
170     sav_acc a2 = new sav_acc();
171     while(true)
172     {
173         System.out.println(" Enter any option \n"+"1 : DEPOSIT\n"+"2 : DISPLAY\n"+"3 : WITHDRAW\n"+"4 : COMPOUND INTREST\n");
174
175         int ch = in.nextInt();
176         switch(ch)
177         {
178             case 1 : a2.deposit();
179                     break;
180             case 2 : a2.dis();
181                     break;
182             case 3 : a2.withdraw();

```

java source file

```

    }
else
{
    sav_acc a2 = new sav_acc();
    while(true)
    {
        System.out.println(" Enter any option \n"+"1 : DEPOSIT\n"+"2 :DISPLAY\n"+"3 : WITHDRAW\n"+"4 : COMPOUND INTREST\n");

        int ch = in.nextInt();
        switch(ch)
        {
            case 1 : a2.deposit();
                     break;
            case 2 : a2.dis();
                     break;
            case 3 : a2.withdraw();
                     break;
            case 4 : a2.cmpInt();
                     break;
            default: System.out.println("Enter valid option");
                     System.exit(0);
        }
    }
}
}
}
}
}

```

rice file

length: 4383 lines: 196

Ln: 18 Col: 11 Sel: 010

Windows (C#) - RTE.8

OUT

Administrator: Command Prompt

```
C:\Program Files\Java\JDK 8\bin>javac Bank.java
```

```
C:\Program Files\Java\JDK 8\bin>java Bank
```

```
Enter the type of account you want to opt 1:CURRENT ACCOUNT 2:SAVINGS ACCOUNT
```

```
1
Enter the customer name
```

```
ram
Enter the account number
```

```
sscd234
Enter the balance
```

```
1000
Enter any option
```

```
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : SERVICE CHARGE
```

```
1
Enter the amount to be deposited :
```

```
100
Enter any option
```

```
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : SERVICE CHARGE
```

```
2
Balance : 1100.0
Enter any option
```

```
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : SERVICE CHARGE
```

```
3
Enter the amount to be withdrawn
```

```
100
Balance after withdrawl: 1000.0
```

```
Enter any option
```

```
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : SERVICE CHARGE
```

```
2
Balance : 1000.0
Enter any option
```

```
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : SERVICE CHARGE
```

```
4
Enter the minimum balance to be maintained
```

```
1200
Enter the service charge to be imposed (in % )if minimum balance in not present
```

```
2
```



```

4
Enter the minimum balance to be maintained
1200
Enter the service charge to be imposed (in %) if minimum balance is not present
2
Balance less than min_bal and service charge imposed
Balance after service charge is imposed 980.0
Enter any option
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : SERVICE CHARGE

6
Enter valid option

C:\Program Files\Java\JDK 8\bin>javac Bank.java

C:\Program Files\Java\JDK 8\bin>java Bank
Enter the type of account you want to opt 1:CURRENT ACCOUNT 2:SAVINGS ACCOUNT
2
Enter the customer name
raj
Enter the account number
csssdf1234
Enter the balance
2000
Enter any option
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : COMPOUND INTREST

1
Enter the amount to be deposited :
100
Enter any option
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : COMPOUND INTREST

2
Balance : 2100.0
Enter any option
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : COMPOUND INTREST

3
Enter the amount to be withdrawn
200
Balance after withdrawl: 1900.0

```


Administrator: Command Prompt

```
2
Balance : 2100.0
Enter any option
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : COMPOUND INTREST

3
Enter the amount to be withdrawn
200
Balance after withdrawl: 1900.0
Enter any option
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : COMPOUND INTREST

2
Balance : 1900.0
Enter any option
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : COMPOUND INTREST

4
Enter the rate(<math>\%</math>) of compound intrest
3
Enter m=12 if compounded monthly m=1 if compounded yearly
1
Enter the time elapsed in year
6
compound interest :1.1940522965290001
Balance after computing compound interest2268.6993634051
Enter any option
1 : DEPOSIT
2 : DISPLAY
3 : WITHDRAW
4 : COMPOUND INTREST

6
Enter valid option
C:\Program Files\Java\JDK 8\bin>_
```