

Date :- 3 November 2020, Name :- Iritish Singh, USN :- 1BM19CS063.

OOT Lab Program Week 8 :-Lab Exercise 5 :-Input for Lab Exercise 5 :-

```

import java.util.*;
class Account
{
    String name;
    int type;
    Account (String n, double a, int t, double b)
    {
        name = n;
        acc_no. = a;
        type = t;
        bal = b;
    }
    void display (String name, double acc_no, int type, double bal)
    {
        System.out.println ("Name : " + name);
        System.out.println ("Account No. : " + acc_no);
        System.out.println ("Type of account : " + type);
        System.out.println ("Balance : " + bal);
    }
}

class Sav extends Account
{
    double w, i;
    Sav (String n, double a, int t, double b, double wd, double in)
    {
        super (n, a, t, b);
        w = wd;
        i = in;
    }
}

```

Date: 3-November 2020

Name: Shrikish Singh

USN: IBM19C5063

```

void wd bal (double bal, double w) {
    System.out.println ("Withdrawal Amount : " + w);
    bal = bal - w;
    System.out.println ("Remaining balance is : " + bal);
}

```

```

class Current extends Account
{

```

```

    double p;

```

```

    Current (String n, double a, int t, double b, double p, double in)
    {

```

```

        super (n, a, t, b);

```

```

        p = p;
    }

```

```

void pen (double bal)
{

```

```

    System.out.println ("Penalty is imposed of 500 Rupees as
                        balance is below 100 Rupees");

```

```

    bal = bal - 500;

```

```

    System.out.println ("Remaining balance is : " + bal);
}

```

```

class Series
{

```

```

    public static void main (String [] args)
    {

```

```

        Scanner in = new Scanner (System.in);

```

```

        String name = " ";

```

```

        double acc-no = 0, bal = 0, w = 0, i = 0, p = 0;

```

```

        int type = 0, j = 0, k = 0;

```

```

        Account a = new Account (name, acc-no, type, bal);

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```

        Sav a1 = new Sav (name, acc-no, type, bal, w, i);

```

```

        System.out.println

```

```

        Current c = new Current (name, acc-no, type, bal, p, i);

```


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```

System.out.println("Name:");
name = in.next();
System.out.println("Account type (1: Savings Account | 2: Current Account):");
type = in.nextInt();
System.out.println("Enter initial amount in account:");
bal = in.nextDouble();
a.display(name, acc-no, type, bal);
if (type == 1)
{
    System.out.println("Do you want to withdraw (1: Yes 2: No)");
    j = in.nextInt();
    if (j == 1)
    {
        System.out.println("Enter withdrawal amount:");
        w = in.nextDouble();
        ac.withdraw(bal, w);
    }
}
else if (type == 2)
{
    if (bal < 1000)
    {
        c.pen(bal);
    }
    else {
        System.out.println("Do you want to withdraw (1: Yes 2: No)?");
        k = in.nextInt();
        if (k == 1) {
            System.out.println("Enter withdrawal amount:");
            w = in.nextDouble();
            cu.withdraw(bal, w);
        }
    }
}
}

```

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```

    }
    else {
        system.out.println("You haven't entered proper choice !!!");
    }
}
}

```

Output of the above program:

Name :

Jhritik

Account No. :

30

Account type (1: Savings Account 2: Current Account):

1.

Enter initial amount in account:

4000

Name: Jhritik

Account No. : 30.0

Type of account : 1.

Balance : 4000.0

Do you want withdrawal (1: Yes 2: No)?

1.

Enter withdrawal amount:

3000

Withdrawal Amount : 3000

Remaining Balance is : 1000;

Name :

Rishi

Account no.:

40

Account type (1: Savings Account 2: Current Account):

2.

Date: 3 November 2020, Name: Jyoti Singh, OSN: 1BM19C5063

Enter initial amount in account:

600

Name: Rishi

Account No.: 40.0.

Type of Account: 2.

Balance: 600.0.

Penalty is imposed of 500 Rupees as balance is below 1000 Rupees
Remaining balance is: 100.

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```
        super(n,a,t,b);  
        p=pe;  
    }  
    void pen(double bal)  
    {  
        System.out.println("Penalty is imposed of 500 Ruppees as balance is below 1000 Ruppees");  
        bal=bal-500;  
        System.out.println("Remaining balance is : "+bal);  
    }  
}  
class Series  
{  
    public static void main(String[] args)  
    {  
        Scanner in = new Scanner(System.in);  
        String name="";  
        double acc_no=0,bal=0,w=0,i=0,p=0;  
        int type=0,j=0,k=0;  
        Account a=new Account(name,acc_no,type,bal);  
        Sav as=new Sav(name,acc_no,type,bal,w,1);  
        Current c=new Current(name,acc_no,type,bal,p,i);  
        System.out.println("Name : ");  
        name=in.next();  
        System.out.println("Account No. : ");  
        acc_no=in.nextDouble();  
        System.out.println("Account type (1:Savings Account\t2:Current Account) : ");  
        type=in.nextInt();  
        System.out.println("Enter initial amount in account : ");  
        bal=in.nextDouble();  
        a.display(name,acc_no,type,bal);  
        if(type==1){  
            System.out.println("Do you want to withdraw (1:Yes 2:No)?");  
            j=in.nextInt();  
            if(j==1){  
                System.out.println("Enter withdrwal amount : ");  
                w=in.nextDouble();  
                as.wdwal(bal,w);  
            }  
        }  
        else if(type==2){  
            if(bal<1000){  
                c.pen(bal);  
            }  
        }  
        else{  
            System.out.println("Invalid account type");  
        }  
    }  
}
```

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Command Prompt
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

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C:\Users>cd..

C:\>cd C:\Users\hriti\Documents

C:\Users\hriti\Documents>javac oojweek8_5.java

C:\Users\hriti\Documents>java Series
Name :
Hritik
Account No. :
30
Account type (1:Savings Account 2:Current Account) :
1
Enter initial amount in account :
4000
Name : Hritik
Account No. : 30.0
Type of account : 1
Balance : 4000.0
Do you want to withdraw (1:Yes 2:No)?
1
Enter withdrwal amount :
3000
Withdrwal Amount : 3000.0
Remaining balance is : 1000.0

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```
1 import java.util.*;
2 class Account
3 {
4     String name;
5     double acc_no,bal;
6     int type;
7     Account(String n,double a,int t,double b)
8     {
9         name=n;
10        acc_no=a;
11        type=t;
12        bal=b;
13    }
14    void display(String name,double acc_no,int type,double bal)
15    {
16        System.out.println("Name : "+name);
17        System.out.println("Account No. : "+acc_no);
18        System.out.println("Type of account : "+type);
19        System.out.println("Balance : "+bal);
20    }
21 }
22 class Sav extends Account
23 {
24     double w,i;
25     Sav(String n,double a,int t,double b,double wd,double in)
26     {
27         super(n,a,t,b);
28         w=wd;
29         i=in;
30     }
31     void wdbal(double bal, double w){
32         System.out.println("Withdrawal Amount : "+w);
33         bal=bal-w;
34         System.out.println("Remaining balance is : "+bal);
35     }
36 }
37 class Current extends Account
38 {
39     double p;
40     Current(String n,double a,int t,double b,double pe,double in){
41         super(n,a,t,b);
42         p=pe;
43     }
44     void pen(double bal)
```

Command Prompt

```
Enter initial amount in account :
4000
Name : Hritik
Account No. : 30.0
Type of account : 1
Balance : 4000.0
Do you want to withdrawl (1:Yes 2:No)?
1
Enter withdrwal amount :
3000
Withdrawal Amount : 3000.0
Remaining balance is : 1000.0

C:\Users\hriti\Documents>java Series
Name :
Rishi
Account No. :
40
Account type (1:Savings Account 2:Current Account) :
2
Enter initial amount in account :
600
Name : Rishi
Account No. : 40.0
Type of account : 2
Balance : 600.0
Penalty is imposed of 500 Ruppees as balance is below 1000 Ruppees
Remaining balance is : 100.0
C:\Users\hriti\Documents>
```

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fbt www.java whathappened.java practicehelloworld.java maam.java segment.java studentsee.java Playermain.java oojweek8_5.java oojweek8.java

```
55 Scanner in = new Scanner(System.in);
56 String name="";
57 double acc_no=0,bal=0,w=0,i=0,p=0;
58 int type=0,j=0,k=0;
59 Account a=new Account(name,acc_no,type,bal);
60 Sav as=new Sav(name,acc_no,type,bal,w,i);
61 Current c=new Current(name,acc_no,type,bal,p,i);
62 System.out.println("Name : ");
63 name=in.next();
64 System.out.println("Account No. : ");
65 acc_no=in.nextDouble();
66 System.out.println("Account type (1:Savings Account\t2:Current Account) : ");
67 type=in.nextInt();
68 System.out.println("Enter initial amount in account : ");
69 bal=in.nextDouble();
70 a.display(name,acc_no,type,bal);
71 if(type==1){
72     System.out.println("Do you want to withdrawl (1:Yes 2:No)?");
73     j=in.nextInt();
74     if(j==1){
75         System.out.println("Enter withdrwal amount : ");
76         w=in.nextDouble();
77         as.wdbal(bal,w);
78     }
79 }
80 else if(type==2){
81     if(bal<1000){
82         c.pen(bal);
83     }
84     else{
85         System.out.println("Do you want to withdrawl (1:Yes 2:No)?");
86         k=in.nextInt();
87         if(k==1){
88             System.out.println("Enter withdrwal amount : ");
89             w=in.nextDouble();
90             as.wdbal(bal,w);
91         }
92     }
93 }
94 else{
95     System.out.println("You havent entered proper choice!!!");
96 }
97 }
98 }
```

Command Prompt

```
1
Enter initial amount in account :
4000
Name : Hritik
Account No. : 30.0
Type of account : 1
Balance : 4000.0
Do you want to withdrawl (1:Yes 2:No)?
1
Enter withdrwal amount :
3000
Withdrwal Amount : 3000.0
Remaining balance is : 1000.0

C:\Users\hriti\Documents>java Series
Name :
Rishi
Account No. :
40
Account type (1:Savings Account 2:Current Account) :
2
Enter initial amount in account :
600
Name : Rishi
Account No. : 40.0
Type of account : 2
Balance : 600.0
Penalty is imposed of 500 Ruppees as balance is below 1000 Ruppees
Remaining balance is : 100.0
```

Java source file

length: 2,364 lines: 98

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