



Welcome

CircledemoMain.java

ActorMain.java

clmain.java

Matrixmain.java

Shapemain.java X

Bankmain.java



C:\Users\Apy\Desktop&gt; java lab &gt; Shapemain.java

```
22     void printArea(){
23         System.out.println("area of the triangle is :"+((b*h)/2));
24     }
25 }
26 class Circle extends Shape{
27     Circle(int r){
28         super(r,0);
29     }
30     void printArea(){
31         System.out.println("area of the c is :"+(3.14*b*b));
32     }
33 }
34 class Shapemain{
35     public static void main(String args[]){
36         Rectangle R = new Rectangle(10,20);
37         R.printArea();
38         Triangle T = new Triangle(10,20);
39         T.printArea();
40         Circle C = new Circle(10);
41         C.printArea();
42     }
43 }
```

C:\WINDOWS\system32\cmd.exe - java Bankmain

```
C:\Users\Apy\Desktop\java lab>java Shapemain
area of the rectangle is:200
area of the triangle is :100
area of the c is :314.0
```

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Shapemain.java - Virtual Studio Code

WelcomeCircledemoMain.javaActorMain.javaclmain.javaMatrixmain.javaShapemain.java XBankmain.java

C:\Users\Apyy\Desktop> java lab > Shapemain.java

```
1 import java.util.Scanner;
2 abstract class Shape{
3     int b,h;
4     Shape(int b, int h){
5         this.b = b;
6         this.h = h;
7     }
8     abstract void printArea();
9 }
10 class Rectangle extends Shape{
11     Rectangle(int b,int h){
12         super(b,h);
13     }
14     void printArea(){
15         System.out.println("area of the rectangle is:"+b*h));
16     }
17 }
18 class Triangle extends Shape{
19     Triangle(int b,int h){
20         super(b,h);
21     }
22     void printArea(){
23         System.out.println("area of the triangle is :"+((b*h)/2));
24     }
25 }
26 class Circle extends Shape{
27     Circle(int r){
28         super(r,0);
29     }
30     void printArea(){
31         System.out.println("area of the c is :"+(3.14*b*b));
32     }
33 }
```

C:\WINDOWS\system32\cmd.exe - java Bankmain

```
C:\Users\Apyy\Desktop\java lab>java Shapemain
area of the rectangle is:200
area of the triangle is :100
area of the c is :314.0
```

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C:\Users\Apy\Desktop\java lab>java Bankmain

Enter Name:

qwerty

Enter account number:

1234

Enter account type:

1.saving

2.current

1

Saving Account

enter the amount to be placed in your saving account:

10000

balance:10000.0

Enter the rate of interest in (%) :

10

Enter the time in years :

2

the CI is:2100.0009765625

balance:12100.0009765625

enter the amount to be withdrawn:

10000

balance:2100.0009765625

Press 1 to Continue or 2 to Exit

1

Enter Name:

werty

Enter account number:

12345

Enter account type:

1.saving

2.current

2

Current Account

checkbook facility available

enter the amount to be placed in your current account:

1500

balance:1500.0

Minimum balance is maintained

enter the amount to be withdrawn:

700

balance:800.0

Service charge of 250 will be imposed as penalty for having balance below minimum balance

balance:550.0

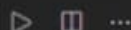
Press 1 to Continue or 2 to Exit

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Welcome CirdedemoMain.java ActorMain.java clmain.java Matrixmain.java Shapemain.java Bankmain.java X



C:\Users&gt; Appy &gt; Desktop &gt; java lab &gt; Bankmain.java

```
1  import java.util.Scanner;
2  class Account{
3      String name;
4      long acc_no;
5      int acc_type;
6      double balance;
7      Scanner sc = new Scanner(System.in);
8  void getData(){
9      System.out.println("Enter Name:");
10     name = sc.next();
11     System.out.println("Enter account number:");
12     acc_no = sc.nextLong();
13     System.out.println("Enter account type:\n1.saving \n2.current");
14     acc_type = sc.nextInt();
15 }
16 int retacc(){
17     return acc_type;
18 }
19 }
20 class Savings extends Account{
21     double amount;
22     Scanner sc = new Scanner(System.in);
23     void get_savacc_bal(){
24         System.out.println("enter the amount to be placed in your saving account:");
25         amount = sc.nextDouble();
26         balance+=amount;
27     }
28     void display_savacc_bal(){
29         System.out.println("balance:"+balance);
30     }
31     void cal_savacc_interest(){
32         System.out.println("Enter the rate of interest in (%) :");
33         float rate = sc.nextFloat();
```



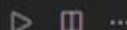
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```
33 float rate = sc.nextFloat();
34 System.out.println("Enter the time in years :");
35 float time = sc.nextFloat();
36 float CI = (float)(balance*(Math.pow((1+rate/100),time)));
37 System.out.println("the CI is:"+ (CI-balance));
38 balance=CI;
39 System.out.println("balance:"+balance);
40 }
41 void withdrawl_savacc(){
42     System.out.println("enter the amount to be withdrawn:");
43     float amount1 = sc.nextFloat();
44     balance= balance-amount1;
45     System.out.println("balance:"+balance);
46 }
47 }
48 class Current extends Account{
49     Scanner sc = new Scanner(System.in);
50     double amount;
51     final double min_bal = 1000;
52     void get_curacc_bal(){
53         System.out.println("enter the amount to be placed in your current account:");
54         amount = sc.nextDouble();
55         balance+=amount;
56     }
57     void display_curacc_bal(){
58         System.out.println("balance:"+balance);
59     }
60     void cal_curacc_service(){
61         if(balance<min_bal){
62             System.out.println("Service charge of 250 will be imposed as penalty for having balance below minimum balance");
63             balance=balance-250;
64             System.out.println("balance:"+balance);
65         }else{
```

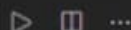


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Welcome CirdedemoMain.java ActorMain.java clmain.java Matrixmain.java Shapemain.java Bankmain.java X



C:\Users&gt; Appy &gt; Desktop &gt; java lab &gt; Bankmain.java

```
65     }else{
66         System.out.println("Minimum balance is maintained");
67     }
68 }
69 void withdrawl_curacc(){
70     System.out.println("enter the amount to be withdrawn:");
71     float amount1 = sc.nextFloat();
72     balance= balance-amount1;
73     System.out.println("balance:"+balance);
74 }
75 }
76 class Bankmain{
77     public static void main(String args[]){
78         int check,check2;
79         Scanner ss = new Scanner(System.in);
80         Account A1 = new Account();
81         while(true){
82             A1.getData();
83             check = A1.retacc();
84             if(check==1){
85
86                 System.out.println("Saving Account");
87                 Savings S1 = new Savings();
88                 S1.get_savacc_bal();
89                 S1.display_savacc_bal();
90                 S1.cal_savacc_interest();
91                 S1.withdrawl_savacc();
92
93                 System.out.println("Press 1 to Continue or 2 to Exit");
94                 check2 = ss.nextInt();
95                 switch(check2){
96                     case 1: break;
97                     case 2: System.exit(0);
```



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```

C:\> Users > Appy > Desktop > java lab > Bankmain.java
94      check2 = ss.nextInt();
95      switch(check2){
96          case 1: break;
97          case 2: System.exit(0);
98          default: break;
99      }
100
101  }
102  else if(check==2){
103      System.out.println("Current Account");
104      System.out.println("checkbook facility available");
105      Current C1 = new Current();
106      C1.get_curacc_bal();
107      C1.display_curacc_bal();
108      C1.cal_curacc_service();
109      C1.withdrawl_curacc();
110      C1.cal_curacc_service();
111      System.out.println("Press 1 to Continue or 2 to Exit");
112      check2 = ss.nextInt();
113      switch(check2){
114          case 1: break;
115          case 2: System.exit(0);
116          default: break;
117      }
118
119  }
120  }
121  }
122  }
123  }
```

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