

File Edit Selection View Go Run Terminal Help

abstract.java • Bank.java

abstract.java > Main

```
1 import java.util.Scanner;
2 abstract class Shape
3 {
4     int d1;
5     int d2;
6     Shape(int a,int b)
7     {
8         d1=a;
9         d2=b;
10    }
11    abstract void printarea();
12 }
13 class Rectangle extends Shape
14 {
15     Rectangle(int a,int b)
16     {
17         super(a,b);
18     }
19     void printarea()
20     {
21         float area=(float)d1*d2;
22         System.out.println("Area of the rectangle :"+area);
23     }
24 }
25 class Triangle extends Shape
26 {
27     Triangle(int a,int b)
28     {
29         super(a,b);
30     }
31     void printarea()
32     {
33         float area=(float)d1*d2/2;
34         System.out.println("Area of the triangle :"+area);
35     }
36 }
37 class Circle extends Shape
38 {
39     Circle(int a,int b)
40     {
41         super(a,b);
42     }
43     void printarea()
44     {
45         float area=(float)3.14*d1*d1;
46         System.out.println("Area of the circle :"+area);
```

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```
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● abstract.java - java - Visual Studio Code

● abstract.java ● Bank.java
abstract.java > Main
44 {
45     float area=(float)3.14*d1*d1;
46     System.out.println("Area of the circle :"+area);
47 }
48 }
49 class Main
50 {
51     Run | Debug
52     public static void main(String args[])
53     {
54         int ch,flag=0;
55         Scanner ss=new Scanner(System.in);
56         while(flag==0)
57         {
58             System.out.println("Enter the choice whose area has to be calculated");
59             System.out.println("1.RECTANGLE\n2.TRIANGLE\n3.CIRCLE");
60             ch=ss.nextInt();
61             switch(ch)
62             {
63                 case 1:
64                     System.out.println("Enter the dimensions of rectangle");
65                     int x=ss.nextInt();
66                     int y=ss.nextInt();
67                     Rectangle r=new Rectangle(x,y);
68                     r.printarea();
69                     break;
70                 case 2:
71                     System.out.println("Enter the dimensions of triangle");
72                     int s=ss.nextInt();
73                     int w=ss.nextInt();
74                     Triangle t=new Triangle(s,w);
75                     t.printarea();
76                     break;
77                 case 3:
78                     System.out.println("Enter the radius of circle");
79                     int f=ss.nextInt();
80                     Circle c=new Circle(f,f);
81                     c.printarea();
82                     break;
83                 default:
84                     flag=1;
85             }
86         }
87     }
}
```

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abstract.java x Bank.java

abstract.java > Main

```
45     float area=(float)3.14*d1*d1;
46     System.out.println("Area of the circle :"+area);
47 }
48 }
49 class Main
50 {
51     Run | Debug
52     public static void main(String args[])
53     {
54         int ch,flag=0;
55         Scanner ss=new Scanner(System.in);
56         while(flag==0)
```

PROBLEMS 46 OUTPUT DEBUG CONSOLE TERMINAL

1: powershell

Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS C:\Users\Harshita\Desktop\java> javac abstract.java
PS C:\Users\Harshita\Desktop\java> java Main
Enter the choice whose area has to be calculated
1.RECTANGLE
2.TRIANGLE
3.CIRCLE
1
Enter the dimensions of rectangle
30 45
Area of the rectangle :1350.0
Enter the choice whose area has to be calculated
1.RECTANGLE
2.TRIANGLE
3.CIRCLE
2
Enter the dimensions of triangle
44 55
Area of the triangle :1210.0
Enter the choice whose area has to be calculated
1.RECTANGLE
2.TRIANGLE
3.CIRCLE
3
Enter the radius of circle
7
Area of the circle :153.86002
Enter the choice whose area has to be calculated
1.RECTANGLE
2.TRIANGLE
3.CIRCLE
6
PS C:\Users\Harshita\Desktop\java>

Build failed, do you want to continue?
Source: Debugger for Java (Extension)
Proceed Fix... Cancel

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abstract.java Bankjava X

```
Bankjava > Account > Account(String, long, String, double)
1 import java.util.Scanner;
2 abstract class Account
3 {
4     String cust_name;
5     long acc_no;
6     String acc_type;
7     double balance;
8     double min_bal = 1000.0;
9     Account (String cust_name, long acc_no,String acc_type,double balance)
10 {
11     this.cust_name=cust_name;
12     this.acc_no=acc_no;
13     this.acc_type=acc_type;
14     this.balance=balance;
15 }
16 abstract void deposit(double amount);
17 abstract void display();
18 abstract void withdrawal(double amount);
19 }
20
21 class Curr_acct extends Account
22 {
23     double penalty=100.0;
24     Curr_acct(String cust_name, long acc_no,String acc_type,double balance)
25     {
26         super(cust_name,acc_no,acc_type,balance);
27         System.out.println("Name of the customer: "+cust_name);
28         System.out.println("Account Number accno: "+acc_no);
29         System.out.println("Account type: "+acc_type);
30         System.out.println("Balance: "+balance);
31     }
32
33     void deposit(double amount)
34     {
35         this.balance = this.balance+amount;
36     }
37
38     void withdrawal(double amount)
39     {
40         this.balance = this.balance-amount;
41         imposepenalty();
42         System.out.println("The current balance is "+balance);
43     }
44     void imposepenalty()
45     {
46
```

Bankjava - java - Visual Studio Code

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abstract.java Bankjava X

```
Bankjava > Account > Account(String, long, String, double)
45 void imposepenalty()
46 {
47     if(this.balance<min_bal)
48     {
49         this.balance=this.balance-penalty;
50         System.out.println("The balance amount is insufficient, the penalty imposed = 100Rs");
51     }
52 }
53 void display()
54 {
55     System.out.println("Balance is: " + this.balance);
56 }
57 }
58 class Sav_acct extends Account
59 {
60     Sav_acct(String cust_name, long acc_no,String acc_type,double balance)
61     {
62         super(cust_name,acc_no,acc_type,balance);
63         System.out.println("Name of the customer: "+cust_name);
64         System.out.println("Account Number accno: "+acc_no);
65         System.out.println("Account type: "+acc_type);
66         System.out.println("Balance: "+balance);
67     }
68     void deposit(double amount)
69     {
70         this.balance = this.balance+amount;
71         interest();
72     }
73     void interest()
74     {
75         int rate=10,time=1;
76         float ci=(float)(this.balance*Math.pow(1+rate/100.0,time)-this.balance);
77         System.out.println("The interest amount added to balance is "+ci);
78         this.balance=this.balance+ci;
79     }
80 }
81 void withdrawal(double amount)
82 {
83     this.balance=this.balance-amount;
84     System.out.println("The current balance is "+balance);
85 }
86 void display()
87 {
88     System.out.println("Balance is: " +this.balance);
89 }
90 }
```

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Bankjava - java - Visual Studio Code

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abstract.java Bankjava X

```
Bankjava > Account > Account(String, long, String, double)
88     System.out.println("Balance is: " +this.balance);
89     }
90 }
91 class AccountMain
92 {
    Run | Debug
93     public static void main(String[] args)
94     {
95         Scanner xx = new Scanner(System.in);
96         Double amount;
97         int flag = 0;
98         while( flag == 0)
99         {
100             System.out.println("Enter the type of Account:\n1:Current account\n2:Savings account");
101             int choice=xx.nextInt();
102             switch(choice)
103             {
104                 case 1:System.out.println("\nCurrent account:\n");
105                     System.out.println("Enter the name of account holder");
106                     String f=xx.next();
107                     System.out.println("Enter the account number");
108                     long g=xx.nextLong();
109                     System.out.println("Enter the balance amount");
110                     double h=xx.nextDouble();
111
112                     Curr_acct c = new Curr_acct(f,g,"current",h);
113                     int flag1 = 0;
114                     while( flag1 == 0)
115                     {
116                         System.out.println("Enter your choice\n1:Deposit amount\n2:DisplayBalance\n3:Withdraw");
117                         int choice1= xx.nextInt();
118                         switch (choice1)
119                         {
120                             case 1:
121                                 System.out.println("Enter amount to be deposited:");
122                                 amount = xx.nextDouble();
123                                 c.deposit(amount);
124                                 break;
125
126                             case 2:
127                                 c.display();
128                                 break;
129
130                             case 3:
131                                 System.out.println("Enter amount you want to withdraw:");
132                                 amount = xx.nextDouble();
```

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15

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abstract.java Bankjava

```
122     System.out.println("Enter amount to be deposited:");
123     amount = xx.nextDouble();
124     c.deposit(amount);
125     break;
126
127     case 2:
128     c.display();
129     break;
130
131     case 3:
132     System.out.println("Enter amount you want to withdraw:");
133     amount = xx.nextDouble();
134     c.withdrawal(amount);
135     break;
136
137     default:
138     flag1 = 1;
139 }
140 break;
141 case 2: System.out.println("\nSavings account:\n");
142 System.out.println("Enter the name of account holder");
143 String p=xx.next();
144 System.out.println("Enter the account number");
145 long q=xx.nextLong();
146 System.out.println("Enter the balance amount");
147 double r=xx.nextDouble();
148 Sav_acct s = new Sav_acct(p,q,"Savings",r);
149 int flag2 = 0;
150 while(flag2 == 0)
151 {
152     System.out.println("Enter your choice\n1:Deposit amount\n2:DisplayBalance\n3:Withdraw");
153     int choice2 = xx.nextInt();
154     switch (choice2)
155     {
156     case 1: System.out.println("Enter amount to be deposited:");
157     amount = xx.nextDouble();
158     s.deposit(amount);
159     break;
160     case 2:
161     s.display();
162     break;
163     case 3:
164     System.out.println("Enter amount you want to withdraw:");
165     amount = xx.nextDouble();
166     s.withdrawal(amount);
167     break;
```

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```
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Bankjava - java - Visual Studio Code

abstract.java Bankjava x
Bankjava > Account > Account(String, long, String, double)
136         default:
137             flag1 = 1;
138         }
139     }
140     break;
141     case 2: System.out.println("\nSavings account:\n");
142     System.out.println("Enter the name of account holder");
143     String p=xx.next();
144     System.out.println("Enter the account number");
145     long q=xx.nextLong();
146     System.out.println("Enter the balance amount");
147     double r=xx.nextDouble();
148     Sav_acct s = new Sav_acct(p,q,"Savings",r);
149     int flag2 = 0;
150     while(flag2 == 0)
151     {
152         System.out.println("Enter your choice\n1:Deposit amount\n2:DisplayBalance\n3:Withdraw");
153         int choice2 = xx.nextInt();
154         switch (choice2)
155         {
156             case 1: System.out.println("Enter amount to be deposited:");
157             amount = xx.nextDouble();
158             s.deposit(amount);
159             break;
160             case 2:
161             s.display();
162             break;
163             case 3:
164             System.out.println("Enter amount you want to withdraw:");
165             amount = xx.nextDouble();
166             s.withdrawal(amount);
167             break;
168             default:
169             flag2 =1;
170         }
171     }
172     break;
173     default: flag=1;
174 }
175 }
176 }
177 }
```


Bank.java - java - Visual Studio Code

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PROBLEMS 46 OUTPUT DEBUG CONSOLE TERMINAL

1: java

```
PS C:\Users\Harshita\Desktop\java> javac Bank.java
PS C:\Users\Harshita\Desktop\java> java AccountMain
Enter the type of Account:
1:Current account
2:Savings account
1

Current account:

Enter the name of account holder
ABC
Enter the account number
1234567
Enter the balance amount
200000
Name of the customer: ABC
Account Number accno: 1234567
Account type: current
Balance: 200000.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
1
Enter amount to be deposited:
500
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
3
Enter amount you want to withdraw:
200
The current balance is 200300.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
2
Balance is: 200300.0
Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
7
Enter the type of Account:
1:Current account
2:Savings account
1

Current account:
```

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Bank.java - java - Visual Studio Code

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PROBLEMS 46 OUTPUT DEBUG CONSOLE TERMINAL

1

Current account:

Enter the name of account holder
JKL

Enter the account number
745678

Enter the balance amount
800

Name of the customer: JKL
Account Number accno: 745678
Account type: current
Balance: 800.0

Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
3

Enter amount you want to withdraw:
100

The balance amount is insufficient, the penalty imposed = 100Rs
The current balance is 600.0

Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
7

Enter the type of Account:
1:Current account
2:Savings account
2

Savings account:

Enter the name of account holder
XYZ

Enter the account number
987654

Enter the balance amount
700000

Name of the customer: XYZ
Account Number accno: 987654
Account type: Savings
Balance: 700000.0

Enter your choice
1:Deposit amount
2:DisplayBalance
3:Withdraw
1

Enter amount to be deposited:

Ln 13, Col 28 Spaces: 4 UTF-8 CRLF Java JavaSE-15

Type here to search

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03-11-2020

