

```

1  import java.util.Scanner;
2
3  class Account
4  {
5      String customer_name;
6      String acc_number;
7      String acc_type;
8
9      public Account(String customer_name, String acc_number, String acc_type) {
10         this.customer_name = customer_name;
11         this.acc_number = acc_number;
12         this.acc_type = acc_type;
13     }
14 }
15
16 class Savings_Account extends Account
17 {
18     static double balance=0.0;
19
20     public Savings_Account(String customer_name, String acc_number, String acc_type) {
21         super(customer_name, acc_number, acc_type);
22     }
23
24     public void deposit(double amt, int yrs, double rate)
25     {
26         rate /= 100.0;
27         balance = amt * Math.pow((1 + rate/12), (12 * yrs));
28     }
29     public void withdraw(double amt)
30     {
31         if(balance - amt <=0)
32         {
33             System.out.println("Cannot withdraw");
34         }
35         else {
36             balance -= amt;
37         }
38     }
39 }

```

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```

33         System.out.println("Cannot withdraw");
34     }
35     else {
36         balance -= amt;
37     }
38 }
39
40 public void getDetails()
41 {
42     System.out.println("Name:"+customer_name);
43     System.out.println("Account number:"+acc_number);
44     System.out.println("Account type:"+acc_type);
45     System.out.println("Balance:"+balance);
46     System.out.println("Check Book facility:No");
47 }
48
49 }
50
51 class Current_Account extends Account
52 {
53     public Current_Account(String customer_name, String acc_number, String acc_type)
54     {
55         super(customer_name, acc_number, acc_type);
56     }
57
58     static double balance=0.0;
59     double min_balance = 500.0;
60     double penalty = 30;
61     public void deposit(double amt)
62     {
63         balance += amt;
64     }
65     public void withdraw(double amt)
66     {
67         if(balance - amt <=0)
68         {
69             System.out.println("Cannot withdraw further");
70         }
71     }
72 }

```



```

    {
        System.out.println("Cannot withdraw further");
    }
    else
        balance -= amt;
}
public void check()
{
    if(balance < min_balance)
        balance -= penalty;
}
public void getDetails()
{
    System.out.println("Name:"+customer_name);
    System.out.println("Account number:"+acc_number);
    System.out.println("Account type:"+acc_type);
    System.out.println("Balance:"+balance);
    System.out.println("Check Book facility:Yes");
}
}

class daya {
    public static void main(String args[]) {
        System.out.println("Enter Savings_account Details:");
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter name:");
        String name1 = sc.next();
        System.out.print("Enter acc_number:");
        String acc_num1 = sc.next();
        System.out.print("Enter amount to deposit:");
        double amt1 = sc.nextDouble();
        System.out.print("Enter time in years:");
        int yrs = sc.nextInt();
        System.out.print("Enter rate of interest:");
    }
}

```



```

0 double amt1 = sc.nextDouble();
1 System.out.print("Enter time in years:");
2 int yrs = sc.nextInt();
3 System.out.print("Enter rate of interest:");
4 double rate = sc.nextDouble();
5 System.out.print("Enter amount to withdraw:");
6 double amt2 = sc.nextDouble();
7
8 System.out.println("-----");
9
0 System.out.println("Enter Current_account Details:");
1 System.out.print("Enter name:");
2 String name2 = sc.next();
3 System.out.print("Enter acc_number:");
4 String acc_num2 = sc.next();
5 System.out.print("Enter amount to deposit:");
6 double amt3 = sc.nextDouble();
7 System.out.print("Enter amount to withdraw:");
8 double amt4 = sc.nextDouble();
9 System.out.println();
0 System.out.println("-----Bank Account Details-----");
1
2 Savings_Account s = new Savings_Account(name1, acc_num1, "Savings_Account")
3 s.deposit(amt1, yrs, rate);
4 s.withdraw(amt2);
5 s.getDetails();
6
7 System.out.println("-----");
8
9 Current_Account c = new Current_Account(name2, acc_num2, "Current_Account")
0 c.deposit(amt3);
1 c.withdraw(amt4);
2 c.check();
3 c.getDetails();
4
5 }

```



```
C:\Users\Deepu K\java>javac daya.java
```

```
C:\Users\Deepu K\java>java daya
```

```
Enter Savings_account Details:
```

```
Enter name:ttttt
```

```
Enter acc_number:54657656
```

```
Enter amount to deposit:23456
```

```
Enter time in years:3
```

```
Enter rate of interest:2
```

```
Enter amount to withdraw:21345
```

```
-----  
Enter Current_account Details:
```

```
Enter name:rtrtr
```

```
Enter acc_number:43546578
```

```
Enter amount to deposit:34567
```

```
Enter amount to withdraw:32321
```

```
-----Bank Account Details-----
```

```
Name:ttttt
```

```
Account number:54657656
```

```
Account type:Savings_Account
```

```
Balance:3560.1941268933624
```

```
Check Book facility:No
```

```
-----  
Name:rtrtr
```

```
Account number:43546578
```

```
Account type:Current_Account
```

```
Balance:2246.0
```

```
Check Book facility:Yes
```

```
C:\Users\Deepu K\java>_
```