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Program 5

Develop a JAVA program to create a class Bank that maintains two kinds of accounts called saving account & current account.

```
import java.util.Scanner;
import java.lang.Math;
class account
{
    String name = new String();
    int accno;
    double bal;
    Scanner s = new Scanner(System.in);
    void set()
    {
        System.out.println("Enter customer details\n(name, account no, balance);
        name = s.next();
        accno = s.nextInt();
        bal = s.nextDouble();
    }
    void display()
    {
        System.out.println("Name = " + name +
            "\n account no = " + accno
            + "\n Balance = " + bal);
    }
    account()
    {
    }
}
```

```

class sav-acc extends account
{
    Scanner s = new Scanner (System.in);
    sav-acc ()
    {
        System.out.println ("Cheque facility not
        available");
    }
    void deposit ()
    {
        int ch;
        double amt;
        System.out.println ("1 for deposit");
        ch = s.nextInt();
        if (ch == 1)
        {
            System.out.println ("Enter amount to
            be deposited");
            amt = s.nextDouble();
            bal = bal + amt;
        }
        else
        {
            System.out.println ("Invalid input");
        }
    }
    void input ()
    {
        System.out.println ("Enter rate of interest,
        no. of times interest applied,
        number of time periods");
        double r = s.nextDouble();
        int n = s.nextInt();
        int t = s.nextInt();
        double x = bal * (1 + r/n);
        double ci = bal * Math.pow(x, n*t);
        bal = bal + ci
        System.out.println ("Balance = " + bal);
    }
}

```



```
void withdraw()  
{
```

```
    System.out.println("1 to withdraw amount");  
    int ch = s.nextInt();  
    if (ch == 1)  
    {
```

```
        System.out.println("Enter amount to be withdrawn");  
        double withdraw = s.nextDouble();  
        bal = bal - withdraw;  
        System.out.println("Balance = " + bal);  
    }
```

```
    else  
    {
```

```
        System.out.println("Invalid input");  
    }
```

```
}
```

```
class curacc extends account  
{
```

```
    Scanner s = new Scanner(System.in);  
    curacc()  
    {
```

```
        System.out.println("Cheque facility available");  
    }
```

```
void deposit()  
{
```

```
    int ch;  
    double amt;  
    System.out.println("1 for deposit");  
    ch = s.nextInt();  
    if (ch == 1)  
    {
```

```
        System.out.println("Enter amount to be deposited");  
        amt = s.nextDouble();  
        bal = bal + amt;  
    }
```

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```

        else
            System.out.println("Invalid input");
    }
    void wd2()
    {
        System.out.println("1 for withdrawal");
        int ch = s.nextInt();
        if (ch == 1)
        {
            System.out.println("Enter amount to be withdrawn");
            double withdraw = s.nextDouble();
            bal = bal - withdraw;
            System.out.println("Balance = " + bal);
        }
        else
            System.out.println("Invalid input");
    }
    if (bal < 1000)
    {
        System.out.println("Running out of min. balance. Amount of 50 deducted");
        bal = bal - 50;
        System.out.println("Balance = " + bal);
    }
}

```

```

public class bank
{

```

```

    public static void main(String[] args)
    {

```

```

        Scanner s = new Scanner(System.in);
        int ch;
    }
}

```


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```

1. System.out.println(" Press 1 for savings
                        and 2 for current");
   ch=Scanner.nextInt();
   switch(ch)
   {
       case 1: sav-acc s1=new sav-acc();
                s1.set(); s1.display();
                s1.deposit();
                s1.input();
                s1.withdraw();
                break;
       case 2: cur-acc a1=new cur-acc();
                a1.set();
                a1.display();
                a1.deposit();
                a1.input();
                a1.withdraw();
                break;
       default: Exit(0);
   }
}
}

```

Output

Press
 1. Savings account
 2. Current account

1
 Cheque facility not available
 Enter customer name
 Anirash
 Enter account number
 2468

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Enter balance amount
40000

Customer name: Arinash

Account no: 2468

Account balance: 40000

Press 1 for deposit
1

Enter amount to be deposited
10000

Enter rate of interest
0.05

Enter number of times interest applied
2

Enter number of time periods
2

~~Balance~~ amount = 55190.6445

Available balance after updating = 105190.64

Press 1 to withdraw amount

1

Enter amount to be withdrawn
40000

Available balance: 65190.644

Press

1. Savings account

2. Current account

2

Cheque facility available

Enter customer name

Arinash

Enter account number

2468

Date ____ / ____ / ____

Saathi

Enter balance amount

1 1000

Customer name: Dinesh

Account number: 1468

Account balance: 1000

Press 1 to deposit

1

Enter amount to be deposited

2000

Press 1 to withdraw amount

1

Enter amount to be ~~dep~~ withdrawn

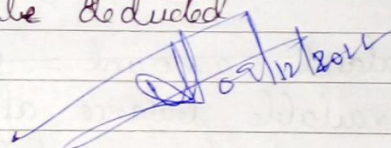
3500

Available balance = -500.0

You are running out of minimum balance

Amount of 50 to be deducted

Balance = -550

 05/12/2011

```
Press
1. Savings account
2. Current account
2
Cheque Facility available
Enter customer name
DINESH
Enter account number
2468
Enter balance amount
1000
Customer Name:DINESH
Your account number:2468
Your Account Balance:1000.0
Press 1 to deposit
1
Enter amount to be deposited
2000
Press 1 to withdraw ammount
1
Enter the amount to be withdrawn
3500
Available Balance:-500.0
You are running out of minimum balance
Amount of rs 50 has been credited
Your Available Balance:-550.0
C:\Users\BMSCECSEIL74\Desktop\1bm21csss050>
```


Press
1. Savings account
2. Current account
1
Cheque Facility not available
Enter customer name
AVINASH
Enter account number
2468
Enter balance amount
40000
Customer Name:AVINASH
Your account number:2468
Your Account Balance:40000.0
Press 1 to deposit
1
Enter amount to be deposited
10000
Enter rate of interest
0.05
Enter number of times interest applied per time period
2
Enter number of time periods
2
Interest amount=55190.64453124998
Balance amount without interest is50000.0
Available balance after updating is105190.64453124997
Press 1 to withdraw ammount
1
Enter the amount to be withdrawn
40000
Available Balance:65190.64453124997