

```
import java.util.Scanner ;
abstract class account{
    String accname,acctype;
    long accnum;
    double balance;
    final int minbal=1000;
    account(String name, long num, double bal, String type) {
        accname = name;
        accnum = num;
        balance = bal;
        acctype = type;
    }
    abstract void addBal(double amt);
    abstract void dispBal();
    abstract void withdraw(double amt);
}
class curr_acct extends account{
    curr_acct(String name, long num, double bal, String type) {
        super(name,num, bal,type);
        System.out.println("name: "+accname+"\nacccnum: "+accnum+"\nbalance: "+balance+"\nacctype: Current");
    }
    void addBal(double amount){
        balance = balance + amount;
    }
    void dispBal(){
        System.out.println("Your balance is: " + balance);
    }
    void withdraw(double amount){
        if(balance < amount){
            System.out.println("you dont have enough balance");
            System.out.println("balance is "+balance);
            return;
        }
        balance =balance - amount;
        System.out.println("balance = "+balance);
        if (balance < minbal) {
            System.out.println("penalty of RS."+(balance * 0.01)+" as balance is less than the minumun needed ");
            balance = balance - balance * 0.01;
            System.out.println("current balance = "+ balance);
        }
    }
}
class Sav_acct extends account {
    Sav_acct(String name, long num, double bal) {
        super(name, num, bal, "Savings");
        System.out.println("name: " + accname + "\taccco: " + accnum + "\tbal: " + bal + "\tttype: " + acctype);
    }
}
```



Type here to search



Links



ENG

1:33 PM
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```
class Sav_acct extends account {
Sav_acct(String name, long num, double bal) {
    super(name, num, bal, "Savings");
    System.out.println("name: " + accname + "\taccno: " + accnum + "\tbal: " + bal + "\tttype: " + accttype);
}

void addBal(double amount){
    balance = balance + amount;
    interest();
}

void interest() {
    int t = 2;
    balance = balance*Math.pow(1+(0.2) , t);
}

void dispBal(){
    System.out.println("Your balance is: " + balance);
}

void withdraw(double amount){
    balance = balance - amount;
    System.out.println("balance = "+balance);
}
}

public class bank
{
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        curr_acct c = new curr_acct("jay",123456,3000.0,"Current");
        double amount;
        int flag= 0;
        while( flag == 0) {
            System.out.println("1:AddBal\n2:displayBal\n3:withdraw\n4:checkbook\n5:saving account");
            int ch = sc.nextInt();
            switch (ch) {
                case 1:
                    System.out.println("enter amount to be added:");
                    amount = sc.nextDouble();
                    c.addBal(amount);
                    break;

                case 2:
                    c.dispBal();
                    break;
            }
        }
    }
}
```



```
        case 2:
            c.dispBal();
            break;

        case 3:
            System.out.println("enter amount to be withdrawn:");
            amount = sc.nextDouble();
            c.withdraw(amount);
            break;
        case 4:
            System.out.println("enter details \nenter name of the reciever:");
            String recname = sc.nextLine();
            recname = sc.nextLine();
            System.out.println("enter the amount to be sent:");
            double a = sc.nextDouble();
            if(a > c.balance)
            {
                System.out.println("you dont have enough balance");
            }
            else{
                System.out.println("Enter password");
                String p = sc.nextLine();
                p=sc.nextLine();
                System.out.println(" reciever : "+recname +"\namount sent is "+a);
                c.balance = c.balance - a;
            }
            System.out.println("balance = "+c.balance);

            break;

        default:
            flag = 1;
    }
}
Sav_acct s = new Sav_acct("jennie",500676, 7000);
flag = 0;
while(flag == 0){
    System.out.println("1:AddBal\n2:displayBal\n3:withdraw\n4:quit");
    int ch = sc.nextInt();
    switch (ch) {
        case 1:
            System.out.println("enter amt to be added:");
            amount = sc.nextDouble();
            s.addBal(amount);
            break;

        case 2:
```



```
{
    System.out.println("you dont have enough balance");
}
else{
    System.out.println("Enter password");
    String p = sc.nextLine();
    p=sc.nextLine();
    System.out.println(" reciever : "+recname +"\namount sent is "+a);
    c.balance = c.balance - a;
}
System.out.println("balance = "+c.balance);

break;

default:
    flag = 1;
}
}
Sav_acct s = new Sav_acct("jennie",500676, 7000);
flag = 0;
while(flag == 0){
    System.out.println("1:AddBal\n2:displayBal\n3:withdraw\n4:quit");
    int ch = sc.nextInt();
    switch (ch) {
        case 1:
            System.out.println("enter amt to be added:");
            amount = sc.nextDouble();
            s.addBal(amount);
            break;

        case 2:
            s.dispBal();
            break;

        case 3:
            System.out.println("enter amt to be withdrawn:");
            amount = sc.nextDouble();
            s.withdraw(amount);
            break;

        default:
            flag =1;
    }
}
}
}
```



Command Prompt - java bank

C:\Users\Vidhu>cd desktop

C:\Users\Vidhu\Desktop>cd java

C:\Users\Vidhu\Desktop\java>set path="C:\Program Files\Java\jdk1.8.0_261\bin"

C:\Users\Vidhu\Desktop\java>javac bank.java

C:\Users\Vidhu\Desktop\java>java bank

name: jay

accnum: 123456

balance: 3000.0

acctype: Current

1:AddBal

2:displayBal

3:withdraw

4:checkbook

5:saving account

4

enter details

enter name of the reciever:

dyuthi

enter the amount to be sent:

2345

Enter password

hfjhj

reciever : dyuthi

amount sent is 2345.0

balance = 655.0

1:AddBal

2:displayBal

3:withdraw

4:checkbook

5:saving account

1

enter amount to be added:

345

1:AddBal

2:displayBal

3:withdraw

4:checkbook

5:saving account

2

Your balance is: 1000.0

1:AddBal

2:displayBal

3:withdraw

4:checkbook

5:saving account