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Puffin

```
import java.util.Scanner;
abstract class Account {
String c_name, acc_type;
int acc_num;
double balance;
int minbalance = 2000;
Account (String c_name, int acc_num,
double balance ) {
this.c_name = c_name;
this.acc_num = acc_num;
this.balance = balance;
this acc_type = acc_type;
}
abstract void addbal(double amount);
abstract void display ();
abstract void withdraw (double amount);
}
class curr_acct extends Account {
curr_acct(String c_name, int acc_num,
double balance) {
super (c_name, acc_num, balance);
system.out.println ("Details of the
customer:");
system.out.println ("Customer name:
"+c_name+"\t Account number:"
}
Void addbal (double amount) {
this.balance += amount;
}
```

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void display () {
System.out.println ("The balance
is:" +this.balance);
}
void withdraw (double amount) {
if (this.balance <amount) {
System.out.println ("Insufficient funds");
System.out.println ("Your balance is:" + this
.balance);
return;
}
this.balance = this.balance -amount;
if (this.balance <minbalance) {

this.balance = this.balance - this
balance * 0.5;
System.out.println ("A penalty of Rs.
"+this.balance * 0.5+ "has been charged
as minimum balance is not satisfied");
System.out.println ("Updated balance:
"this.balance);
System.out.println ("Cannot withdraw");
}
else if (balance > minbalance) {
this.balance = this.balance - amount.
System.out.println ("Balance is:"
+this.balance);
}
}
```

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}
class sav-acct extends Account {
sav-acct (String c-name, int acc-num,
double balance) {
super (c-name, acc-num, balance);
System.out.println ("Customer name:
"+c-name +"\t Account number:"
}
void addbal (double amount) {
this.balance += amount;
}

void display () {
System.out.println ("The balance is:
" +this.balance);
}
void withdraw (double amount) {
if (this.balance <amount) {
System.out.println ("Insufficient
funds ");
system.out.println ("Your balance is:
"+this.balance);
}
this.balance =this.balance -amount;
if (this.balanc <minbalance) {
this.balance =this.balance-this.balance
* 0.5;
System.out.println ("A penalty of
Rs. "+this.balance * 0.5 + "has been
```

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charged as minimum balance is not
satisfied ");
System.out.println("Updated Balance
: "+this.balance);
System.out.println("Cannot withdraw")
;
}
else if (balance > minbalance ){
this.balance=this.balance-amount;
System.out.println("Balance is :
"+this.balance);
}
}

void interest (){
int time = 3, n=1;
System.out.println("Rate of intrest
is 0.2");
this.balance = this.balance * Math.pow
(1+(0.2)/n,(n* time));
System.out.println("Amount after
adding Interest is "+this.balance
}
}
class Bank {
public static void main (String
args[]){
int choice, ch, n=1;
double amount;
```

```
Scanner s1 = new Scanner (System.in);
curr-acct c = new curr-acct ("Ram",
12345, 50000);
sav-acct s = neo sav-acct ("Ram",
12345, 50000);
System.out.print In ("Press 1. For
Current account /n Press 2. For Saving
account");
choice = s1. next Int ();
Switch (choice) {

case 1 : System.out.print In ("* Current
Account * ");
while (n! =0 ){
System.out.print In ("1. Add Balance /n2.
display Balance \n3. withdraw/n4. check
book\n5. Exit);
ch = s1. next Int ();
String reciever;
double recamount;
switch (ch){

case 1:
System.out.print In ("enter amount
to be added");
    amount = s1. next Double ();
    c. add bal (amount);
    break;
```

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case 2:
    c.display();
    break;

case 3:
 System.out.println("enter amount to be withdrawn:");
 amount = s1.nextDouble();
 c.withdraw(amount);
   break;

case 4:
System.out.println("Enter the name of the reciever:");
     reciever = s1.next();
 System.out.println("Enter amount to be debited to reciever:");
     recamount = s1.nextDouble();
     if(recamount > c.balance){
System.out.println("Insufficient Balance");
  }
   else{
System.out.println("Amount of "+recamount+" sent to "+reciever);
 c.balance = c.balance-recamout;
System.out.println("Balance: "+c.balance);
}
```

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case 5:
  n=0
  break
default: System.out.println(
"Invalid input");
 }
 }
  break;

case 2: System.out.println("*
Savings Account*");
  while (n!=0){
  System.out.println("1. Add Ba-
lance \n2. display Balance\n3. with-
draw \n4. calculate Interest \n5.
Exit");
   ch=s1.nextInt();
  switch (ch){

case 1:
  System.out.println("enter amount
to be added :");
   amount=s1.nextDouble();
    s.addbal(amount);
     break;

Case 2:
     s.display();
       break;
```

```
case 3:
System.out.println("enter amount
to be withdrawn:");
amount = s1.nextDouble();
s.withdraw(amount);
    break;

case 4:
    s.interest();
    break;

case 5:
    n=0;
    break;
default:
System.out.println("Invalid input");
}
}
  break;
default: System.out.println(
"Invalid input");
}
  }
}
```