balance and if the balance falls below this level, a service charge is imposed. Create a class Account that stores customer name, account number and type of account. From this derive the class Curacc and Savacct to make them more specific to the requirements. Include the below into methods:

a) Accept deposit from customer and update bal
b) Display the balance.
c) Compute and deposit interest.
d) Permit the withdrawal and update the balance.

```
import java.util.Scanner;
class Amount
{
  String custname;
  String accno; double deposit; double bal;
  double wamt;
  void getd()
  {
    Scanner s = new Scanner(System.in);
  System.out.println("Enter the customer name:");
  custname = sc.nextline();
  System.out.println("Enter the customer account
                                    number:");
  accno = sc.nextline();
  System.out.println("Enter deposit amount:");
  deposit = sc.nextDouble();
  bala = deposit;
  System.out.println();
  }
  void putd()
  {
  System.out.println("Customer name:" + custname);
  System.out.println("Account no:" + accno);
  }}
```

```
class Curacct extends Account {
    void balancecheck()
    {
        if (balance <= 10000)
        { System.out.println("You have less
            than minimum balance");
          balance -= 10000;
        }
    }
void calcbal() {
 System.out.println("current account details:");
  putd();
 System.out.println("Enter amount to withdraw");
  Scanner ss = new Scanner(System.in);
  wamt = ss.nextDouble();
  bal -= wamt;
  balancecheck();
  System.out.println("Balance after penalty" + bal);
  System.out.println();
 }
}
class Savacct extends Account {
    void calcint(){
     bal = bal + (0.07 * bal);
    }
void calcbal(){
 Scanner sc = new Scanner(System.in);
 System.out.println("Enter amount to withdraw");
                    Savings account details
 putd();
 System.out.println("Enter amount to withdraw:");
 wamt = sc.nextDouble();
 bal -= wamt;
```

```
System.out.println(" Balance before compound interest:"
                                                + bal);
calcint();
System.out.println("Balance after compound interest:"
                                                + bal);
}
}
class Bank {
    public static void main(String args[])
    {
      Scanner ss = new Scanner(System.in);
      int acctype;
    System.out.println(" enter 1 for savings account
      and 2 for current account");
      acctype = ss.nextInt();
      if (acctype==1) {
      Savacct sa = new Savacct();
      sa.getd();
      sa.calcbal();
    }
    else if (acctype==2) {
        cuacct ca = new Cuacct();
        ca.getd();
        ca.calcbal();
        System.out.println("Check book is provided");
    }
    else {
      System.out.println("enter a valid account
                                        type");
      }
    }
}
```

Output: Enter 1 for savings account and 2 for current account: 1
Enter the customer name: Rony
Enter the customer account number:
2A43BM36
Enter the deposit amount
20000
Savings account details:
Customer name: Rony
Account number: 2A43BM36
Enter amount to be withdrawn
12000
Balance before addition of compound interest: 80000
Balance after compound interest addition: 8560.0

Enter 1 for savings account and 2 for current account:
2
Enter the customer name: Emy
Enter the customer account number:
2A43BM72
Enter the deposit amount:
21000
Current account details:
Customer name: Emy
Account number: 2A43BM72
Enter amount to be withdrawn
13000
You have less than minimum balance!
Balance after penalty: 7000.0

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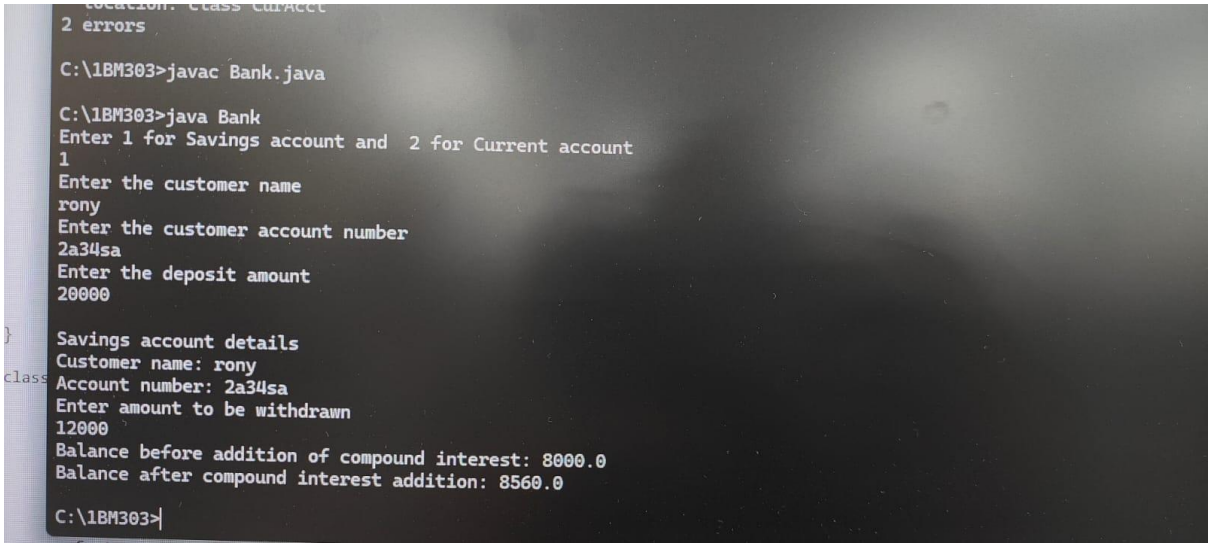
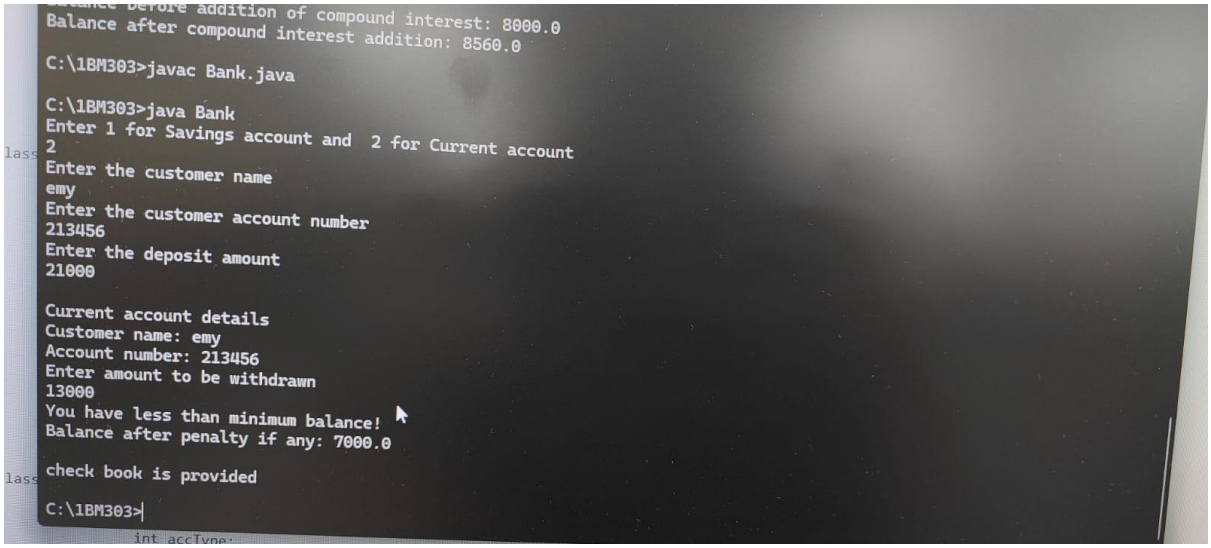
```
import java.util.Scanner;
class Account {
String custName;
String accno;
double deposit;
double bal;
double wamt;

void getd() {
Scanner sc = new Scanner(System.in);
System.out.println("Enter the customer name");
custName = sc.nextLine();
System.out.println("Enter the customer account number");
accno = sc.nextLine();
System.out.println("Enter the deposit amount");
deposit = sc.nextDouble();
bal=deposit;
System.out.println();

}
void putd() {
System.out.println("Customer name: "+custName);
System.out.println("Account number: "+accno);
//System.out.println();
}
}

class CurAcct extends Account {
void balanceCheck() {
if (bal<=10000) {
System.out.println("You have less than minimum balance!");
bal-=1000;
}
}
void calcDisplayBalance() {
System.out.println("Current account details");
putd();
System.out.println("Enter amount to be withdrawn");
Scanner sc = new Scanner(System.in);
wamt = sc.nextDouble();
bal-=wamt;
balanceCheck();
System.out.println("Balance after penalty if any: "+bal);
System.out.println();
}
}

class SavAcct extends Account {
```

```
void interestCalc() {
bal=bal+(0.07*bal);
}
void calcDisplayBalance() {
Scanner sc = new Scanner(System.in);
System.out.println("Savings account details");
putd();
System.out.println("Enter amount to be withdrawn");
wamt = sc.nextDouble();
bal-=wamt;
System.out.println("Balance before addition of compound interest: "+bal);
interestCalc();
System.out.println("Balance after compound interest addition: "+bal);
}
}

class Bank {
public static void main(String args[]) {
Scanner sc = new Scanner(System.in);
int accType;
System.out.println("Enter 1 for Savings account and  2 for Current account");
accType = sc.nextInt();
if (accType==1) {
SavAcct sacc = new SavAcct();
sacc.getd();
sacc.calcDisplayBalance();

}
else if (accType==2) {
CurAcct cacc = new CurAcct();
cacc.getd();
cacc.calcDisplayBalance();
System.out.println("check book is provided ");
}
else {
System.out.println("Enter a valid account type");
}
}
}
```


2 errors
C:\1BM303>javac Bank.java
C:\1BM303>java Bank
Enter 1 for Savings account and 2 for Current account
1
Enter the customer name
rony
Enter the customer account number
2a34sa
Enter the deposit amount
20000
Savings account details
Customer name: rony
Account number: 2a34sa
Enter amount to be withdrawn
12000
Balance before addition of compound interest: 8000.0
Balance after compound interest addition: 8560.0
C:\1BM303>


Balance before addition of compound interest: 8000.0
Balance after compound interest addition: 8560.0
C:\1BM303>javac Bank.java
C:\1BM303>java Bank
Enter 1 for Savings account and 2 for Current account
2
Enter the customer name
emy
Enter the customer account number
213456
Enter the deposit amount
21000
Current account details
Customer name: emy
Account number: 213456
Enter amount to be withdrawn
13000
You have less than minimum balance!
Balance after penalty if any: 7000.0
check book is provided
C:\1BM303>