

LAB-5

Develop a Java program to create a class Bank that maintains 2 kinds of account for its customers, one called savings account and the other current account. The savings account current account provides cheque book facility but no interest. Current account holder's should also maintain a min. balance and if the balance falls below this level, a service charge is imposed.

Create a class account that stores customers name, account number & type of account. From this derive the classes cur-acct and sav-acct to make them more specific to their requirements.

Include the necessary methods in order to achieve the following tasks:

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

Check for the min. balance, impose penalty if necessary and update the balance.

import java.util.Scanner;
class account;

String name;
int accno;
String type;
double balance;

account (String name, int accno, String type, double balance)

this.name = name;

this.accno = accno;

this.type = type;

this.balance = balance;

void deposit (double amount)

balance += amount;

void withdraw (double amount)

balance -= amount;

if ((balance - amount) >= 0)

balance -= amount;

else

System.out.println ("

insufficient balance can't
withdraw");

3. void display ()
 and f. main (String args) {
 System.out.println ("name: " + name +
 " accno: " + accno + " type: " +
 type + " balance: " + balance);
 }
 }.

Class SavAcct extends account.

(private static double rate = 5;
 SavAcct (String name, int accno, double
 balance).
 (constructor)

Super (name, accno, "savings",
 balance);
 }.

void interest ()
{

balance += balance * (rate) / 100;
 System.out.println ("balance: "
 + balance);

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Class AvrAcct: extends account

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```

private double minBal = 500;
private double serviceCharges = 25;
        (1) public class Account {
            String name, address;
            double balance;
        }
        Super(name, address, "current
balance");
    }
}

```

void checking()

{

if (balance < minBal)

System.out.println("balance
is less than min balance
service charges imposed:
+ service charges);

balance -= serviceCharges;

System.out.println("balance
+ balance);

↳

class accountMain

{

public static void main(String args[])
{

Scanner s = new Scanner(System.

System.out.println

```

  System.out.println ("enter the name:");
  String name = s.next();
  System.out.println ("enter the
  type (current / savings):");
  String type = s.next();
  System.out.println ("enter the
  account number:");
  int accno = s.nextInt();
  System.out.println ("Enter the
  initial balance:");
  double balance = s.nextDouble();
  int ch;
  double amount1, amount2;
  Account ac = new Account(
    "Rajesh", accno, type, balance);
  Savings sa = new Savings (name,
    accno, balance);
  Current ca = new Current (
    name, accno, balance);
  
```

Input/Output while (true)

~~(if (a.cc.type.equals ("savings"))~~

~~System.out.println ("~~

~~in new int deposit~~

~~2 withdraw 3.~~

~~compute interest~~

~~4 display");~~

~~System.out.println ("~~

Enter the amount:
amount 2 = s.nextInt()
can withdraw (Amount):
break;

case 2: System.out.println("Enter the amount");
amount 2 = s.nextInt();
sar withdraw (Amount 2);
break;

case 3: sa.interest();
break;

case 4: sa.display();
break;

case 5: System.exit(0);
default: System.out.println("invalid input");
break;

System.out.println("1. deposit
2. withdraw 3. display")

choice:");

ch = s.nextInt();

switch (ch){

case 1: System.out.println("enter the amount");

amount = s.nextInt();

sa.deposit(amount);

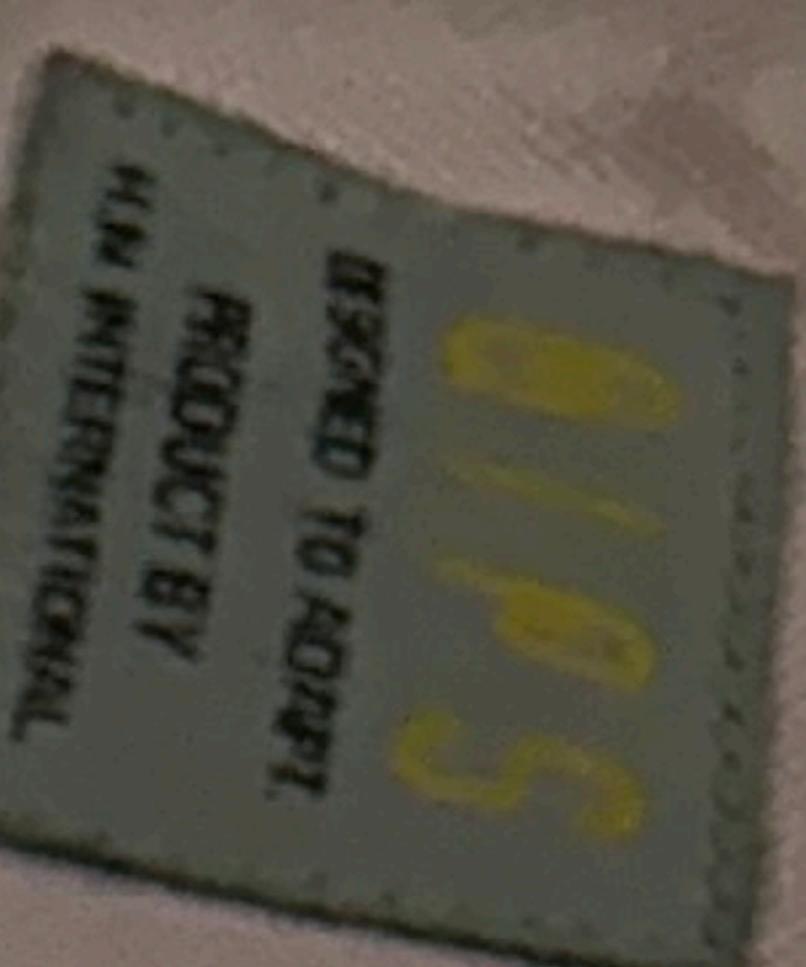
case 2: System.out.println("enter the amount");

amount = s.nextInt();

sa.withdraw(amount);

Quick Work
No.:
W T F S S

Quick Work
Page No.:
Date:
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break;
case 2 : System.out.println("enter the amount : ");
amount2 = s.nextInt();
ca.withdraw(amount2);
ca.checkmin();
break;

case 3 : ca.display();
break;
case 4 : System.exit(0);
default : System.out.println("Invalid input");
break;

Output: 005. enter the name:

enter the name:

Sam:

enter the amount number:

300

enter the initial balance:

5000

: entered login who

0003

menu

- 1. display
- 2. withdraw
- 3. compute

enter the choice:

- 1. deposit
- 2. withdraw
- 3. compute

Balance : 52500

menu

- 1. deposit
- 2. withdraw
- 3. compute

- 4. display

enter the amount

20000

menu

- 1. display
- 2. withdraw
- 3. compute

Interest

- 4. display

enter the choice:

1.

name: Sami account no.: 300 type: 1

savings balance: 76125.0

enter the name account no.: 300

enter account number
300

enter initial balance:
30000

enter the type (current / savings) :

- menu :
1. deposit 2. withdraw 3. display

enter the choice :

1

enter the amount : 1000

enter the choice :

name : Sanjali ; acc no : 300 type : current
balance : 4000

menu

1. deposit 2. withdraw 3. display

enter the choice

2

enter the amount : 2000

menu

1. display 2. withdraw 3. display

enter the choice :

3

name : Sanjali ; acc no : 300 type : current
balance : 2000

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16/11/2024