

2024/01/08
Tuesday
Lab-5

classmate
Date _____
Page _____
CLASS BANK ACCOUNT

(5)

Develop a Java program which has CLASS BANK account & Savings account which extends Accounts.

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){
```

```
    if (balance - amount >= 0)
```

```
        balance -= amount;
```

```
    else,
```

```
        System.out.println("no sufficient  
balance, cannot withdraw")
```

```
}
```

```
void display(){
```

```
    System.out.println("Name:" + name  
    " Account NO:" + accno + "Type:" + type  
    "Type" + "balance:" + balance);
```

```
}
```

```
}
```

```
class Savingacc extends account{
```

```
    private static double rate = 5;
```

```
    Saving acc(String name, int accno,  
    double balance){
```

```
        super(name, accno, type: "Savings", balance)
```

```
}
```

```
void interest(){
```

```
    balance += balance * (rate) / 100;
```

```
    System.out.println("Balance: " + balance)
```

```
}
```

```
}
```

CLASS CURRENT ACCOUNT extend CLASS

private double minbal = 1000;

private double serviceCharge = 50;

CURRENTACC (String name, int accno,
double balance)

{

super (name, accno, "Current",
balance);

}

void checkmin()

{ if (balance < minBal)

System.out.println ("balance
is less than min balance,

Service charges imposed :" + service
charges);

balance -> Service Charges;

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

}

public static void main (String args[])

```
Scanner s = new Scanner (System.in);  
System.out.printIn ("enter the name:");  
String name = s.next();  
System.out.printIn ("enter the type  
Current/Saving");
```

```
String type = s.next();
```

```
System.out.printIn ("enter the account  
number:");
```

```
int accno = s.nextInt();
```

```
System.out.printIn ("enter the initial  
balance.");
```

```
double balance = s.nextDouble();
```

```
int ch;
```

```
double amount1, amount2;
```

```
Account acc = new Account (name,  
type, accno, balance);
```

~~```
Saving acc = new Saving acc (name,
accno, balance);
```~~

```
Current acc = new Current acc (name,
accno, balance);
```

```
while (true)
{
```

```
if (acc.type.equals ("saving"))
```

~~```
{  
if (amount1 > balance)  
{  
System.out.printIn ("Insufficient  
balance");  
}  
else  
{  
balance = balance - amount1;  
acc.balance = balance;  
System.out.printIn ("Your current  
balance is " + balance);  
}  
}
```~~

```
System.out.println("In menu\n1. deposit  
2. withdraw 3. compute interest u.  
display");
```

```
System.out.println("enter the choice");  
Ch = s.nextInt();  
switch(Ch){
```

{

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

```
Amount 1 = s.nextInt();
```

```
s1.deposit(Amount1);
```

```
break;
```

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

```
Amount 2 = s.nextInt();
```

```
s2.withdraw(Amount2);
```

```
break;
```

CASE 3: s1.Interest();

```
break;
```

CASE 4: s2.display();

```
break;
```

CASE 5: System.exit(0);

Default: System.out.println("Invalid
input");

```
        break;
```

```
}
```

```
else
```

```
{
```

```
    System.out.println("In menu In 2.deposit  
    2.withdraw. 3.display");
```

```
    System.out.print("enter the choice:");
```

```
    ch = s.nextInt();
```

```
    switch (ch)
```

```
{
```

```
Case 1: System.out.print("enter the  
amount:");
```

```
Amount 1 = s.nextInt();
```

```
ca.deposit(amount 1);
```

```
break;
```

```
Case 2: System.out.print("enter the  
amount ");
```

~~```
Amount 2 = s.nextInt();
```~~~~```
ca.withdraw(amount 2);
```~~~~```
ca.checkmin();
```~~

```
break;
```

```
Case 3: ca.display();
```

```
break;
```

```
Case 4: System.exit(0);
```

```
} }
```

Output.

Enter the name : Shiv Sundar Seth  
Enter the type ( current / savings );  
Savings.

Enter the account number  
1010152055

Enter the initial balance : 8492500.00

Menu.

1. Deposit    2. withdraw    3. display    4.  
Compute Interest for SA.    5. Exit.

Enter your choice

↓

Enter the deposit amount

15.00

Menu.

1. Deposit    2. withdraw    3. compute interest  
4. display    5. Exit

11/2024  
Name : Shiv Sundar, accno : 1010152055  
type : Savings, balance : 8494000.00