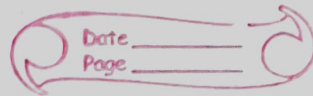


9/11/24

LAB PROGRAM-5



Qn: Develop a Java program which has class Bank, Account & SavingsAccount which extends Account.

```
Class import java.util.*;
```

```
Class Account {
```

```
    String name;
```

```
    String accno;
```

```
    String acctype;
```

```
    double balance;
```

```
    Account (String name, int accno, String acctype,  
             double balance) {
```

```
        this.name = name;
```

```
        this.accno = accno;
```

```
        this.acctype = acctype;
```

```
        this.balance = balance;
```

```
    }
```

```
    void deposit (double amt) {
```

```
        balance += amt;
```

```
    }
```

```
    void withdraw (double amt) {
```

```
        if ((balance - amt) >= 0) {
```

```
            balance -= amt;
```

```
        }
```

```
        else {
```

```
            System.out.println("Insufficient balance");
```

```
        }
```

```
    }
```

```

void display () {
    System.out.println("Name:" + name + "accno:" +
        accno + "account-type:" + acctype + "balance:" +
        balance);
}
}

```

```

class Savingaccount extends Account {
    private static double r = 5;
    int t = 1;
    Savingaccount (String name, int accno, double
        balance) {
        super (name, accno, "savings", balance);
    }
    void interest () {
        balance += (balance * t * r) / 100;
        System.out.println ("Balance:" + balance);
    }
}

```

```

class Curacc extends Account {
    private double minbal = 500;
    private double charge = 50;
    Curacc (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: " + servicecharge);
        balance -= charge;
        System.out.println ("balance is " + balance);
    }
}
```

```
class Bank {
    public static void main (String args[])
    {
        Scanner sc = new Scanner (System.in);
        System.out.println ("Enter the name:");
        String name = sc.nextLine();
        System.out.println ("Enter the type of account:");
        String type = sc.nextLine();
        System.out.println ("Enter the acc no:");
        int accno = sc.nextInt();
        System.out.println ("Enter the balance:");
        double balance = sc.nextDouble();
        int ch;
        double amt1, amt2;
        Account ac = new Account (name, accno, type,
        balance);
        Saving account sa = new Savingaccount (name,
        accno, balance);
```



```
Cowriacc ca = new Cowriacc (name, accno, balance);  
System.out.println("NAME : Shivaraj K Pujari");  
System.out.println("USN : IBM2203259");  
while (true) {  
    if (ca.acctype.equals("savings"))  
    {
```

```
        System.out.println("\n MENU \n 1. deposit  
2. withdraw 3. compute interest 4. display  
5. exit ");  
        System.out.println("Enter the choice");  
        ch = sc.nextInt();  
        switch (ch)  
        {
```

```
            case 1: System.out.println("Enter the  
                amount");  
                    amt1 = sc.nextInt();  
                    sa.deposit(amt1);  
                    break;
```

```
            case 2: System.out.println("Enter the  
                amount");  
                    amt2 = sc.nextInt();  
                    sa.withdraw(amt2);  
                    sa.checkmin();  
                    break;
```

```
            case 3: sa.interest();  
                    break;
```

```
            case 4: sa.display();  
                    break;
```

```
            case 5: System.exit(0);
```

```
default : System.out.println("Invalid ilp");
         break;
```

```
}
```

```
}
```

```
else {
```

```
System.out.println("\n MENU \n 1. deposit  
2. withdraw 3. display");
```

```
System.out.println("Enter the choice");
```

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

```
switch (ch){
```

```
case 1: System.out.println("Enter amount");
```

```
amt1 = sc.nextInt();
```

```
ca.deposit(amt1);
```

```
break;
```

```
case 2: System.out.println("Amount to be  
withdraw");
```

```
amt2 = sc.nextInt();
```

```
ca.withdraw(amt2);
```

```
ca.checkmin();
```

```
break;
```

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

```
break;
```

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

```
}
```

```
}
```

```
}
```

```
}
```

Output:

Enter the name:

Shiv

Enter the type of account:

savings

Enter the account number:

143

Enter the balance:

50000

NAME: Shivaraj. K. Pujari

USN: IBM22ES259

MENU

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

Enter the choice

2

Enter amount

49600

Balance is less than minimum balance, insufficient balance

MENU

1. deposit 2. Withdraw 3. Compute interest 4. display 5. exit

Enter the choice

4

Name: Shiv ~~accno: 143~~ acc-type: savings balance: 400.0

16/1/2024

