

Name: Rijel R. Patel
UGN: IBM19CS205

classmate

Date

Page

Sale - 5

```
import java.util.*;
class account {
    String customer - name;
    int account - number;
    String account - type;
}
class curr - acct extends account {
    Scanner x = new Scanner(System.in);
    double temp = 0.0;
    double amount = 0.0;
    double fine = 0.0;
    double min - amount = 1000.0;
    void getdetails() {
        customer - name = x.nextLine();
        account - number = x.nextInt();
    }
    void deposit() {
        System.out.println("Enter the deposit amount : ");
        temp = x.nextDouble();
        amount += temp;
    }
    void showbalance() {
        if (amount >= min - amount) {
            System.out.println("Balance is : " + amount);
        }
        else {
            fine = (amount * 1.0 * 10) / 100;
            amount -= fine;
            System.out.println("The fine imposed : " + fine);
            System.out.println("Balance is : " + amount);
        }
    }
}
```


3

```
void withdrawal() {
```

```
    System.out.print("Enter the withdrawal amount: ");
```

```
    temp = x.nextDouble();
```

```
    amount -= temp;
```

3

3

```
class sav_acc extends account {
```

```
    Scanner x = new Scanner(System.in);
```

```
    double temp = 0.0;
```

```
    double amount = 0.0;
```

```
    double interest = 0.0;
```

```
    void getdetails() {
```

```
        customer_name = x.nextLine();
```

```
        account_number = x.nextInt();
```

3

```
    void deposit() {
```

```
        System.out.print("Enter the deposit amount: ");
```

```
        temp = x.nextDouble();
```

```
        amount += temp;
```

3

```
    void showbalance() {
```

```
        System.out.println("Balance is: " + amount);
```

3

```
    void withdrawal() {
```

```
        System.out.print("Enter the withdrawal amount: ");
```

```
        temp = x.nextDouble();
```

```
        amount -= temp;
```

3

```
    void interest() {
```

```
        interest = (amount * 10 * 3) / 100;
```

```
        amount += interest;
```



```

System.out.println("interest added : " + interest);
System.out.println("Balance is : " + amount);

```

23

23

```

public class Main {
    public static void main (String args[]) {
        int opt = 0;
        String type = null;
        Scanner x = new Scanner (System.in);
        System.out.println("Welcome to the bank service");
        System.out.println("Enter the type of account (curr acc  
savings acc)");

        type = x.nextLine();
        if (type.equals("curr acc")) {
            curr_acc a = new curr_acc();
            System.out.println("Enter the customer name, account  
number");

            a.getdetails();
            while (true) {
                System.out.println("press 1: deposit and  
update the balance");
                System.out.println("press 2: Display the balance");
                System.out.println("press 3: Withdrawal and update  
the balance");

                System.out.println("Enter Option : ");
                opt = x.nextInt();
                switch (opt) {
                    case 1: a.deposit();
                        a.showbalance();
                        break;
                    case 2: a.showbalance();
                        break;
                }
            }
        }
    }
}

```



```

case 3 : a.withdrawal();
         a.showbalance();
         break;

```

```

}

```

```

}

```

```

}

```

```

if (type.equals("savings")) {
    sav_acct a = new sav_acct();
    System.out.println("Enter the customer_name, account_number");
    a.getdetails();
    while (true) {
        System.out.println("press 1 : Accept deposit and update the balance");
        System.out.println("press 2 : Display the balance");
        System.out.println("press 3 : Compute and deposit interest");
        System.out.println("press 4 : Withdrawal and update the balance");
        System.out.println("Enter option : ");
        opt = x.nextInt();
        switch (opt) {

```

```

            case 1 : a.deposit();
                     a.showbalance();
                     break;

```

```

            case 2 : a.showbalance();
                     break;

```

```

            case 3 : a.interest();
                     a.showbalance();
                     break;

```

```

            case 4 : a.withdrawal();
                     a.showbalance();
                     break;

```

```

        }

```

```

    }

```

```

}
}
}

```