

LAB - 05 :- [BANK ACCOUNT]

Create a class Account that stores customer name, account number and type of account. From this derive the classes cur-acc and sav-acc to make them more specific to their

- requirements. 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.

```
import java.util.Scanner;
```

```
class Input {
    Scanner sc = new Scanner(System.in);
}
```

```
class Account extends Input {
```

```
    String name;
```

```
    int acc no;
```

```
    double balance;
```

```
    void getdetails () {
```

```
        System.out.println("Enter name:");
```

```
        name = sc.nextLine();
```

```
        System.out.print("Enter accno:");
```

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

```
    }
```



```
void deposit () {
```

```
    System.out.println("Enter amount to deposit");
```

```
    double amt = sc.nextDouble();
```

```
    balance += amt;
```

```
    System.out.println("Amount Deposit = ");
```

```
void withdraw () {
```

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

```
    double amt = sc.nextDouble();
```

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

```
        balance -= amt;
```

```
        System.out.println("Amount withdrawn");
```

```
    } else {
```

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

```
}
```

```
void display () {
```

```
    System.out.println("Name: " + name);
```

```
    System.out.println("Account number: " + accno);
```

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

```
}
```

```
class current extends Account {
```

```
    double minbal = 500;
```

```
    double penalty = 100;
```

```
    void withdraw () {
```

```
        super.withdraw();
```

```
        checkBalance();
```

```
}
```



```

Print void check min Balance() {
    if (balance < min int) {
        balance = penalty;
        System.out.println("Penalty applicable for low Balance");
    }
}

```

```

class Saving extends Account {
    double interestRate = 0.04;

```

```

    void computeInterest() {
        double interest = balance * interestRate;
        balance += interest;
        System.out.println("Interest credited, interest");
    }
}

```

```

class Bank Extends Account {
    public static void main (String[] args)

```

```

    {
        Saving ob1 = new Savings();
        Current ob2 = new Current();
        ob1.getDetails();
        ob2.getDetails();
        int choice;
        String acc;
        System.out.println("Menu: ")
        System.out.println("1. deposit In")
        2. withdraw In 3 Display Balance In
        4. Compute Interest (Savings only) ")
    }
}

```



```
5 Exit " ");
```

```
do {
```

```
    System.out.print("Enter your choice:");
```

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

```
    System.out.print("Enter the acc type");
```

```
    acc = sc.next();
```

```
    switch (choice) {
```

```
        case 1:
```

```
            if (acc.equals("Savings"))
```

```
                ob1.deposit();
```

```
    class {
```

```
        ob2.deposit();
```

```
        break;
```

```
    case 2:
```

```
        if (acc.equals("Savings"))
```

```
            ob1.withdraw();
```

```
        else
```

```
            ob2.withdraw();
```

```
        break;
```

```
    case 3:
```

```
        if (acc.equals("Savings"))
```

```
            ob1.display();
```

```
        else
```

```
            ob2.display();
```

```
        break;
```

```
    case 4:
```

```
        ob1.computeInterest();
```

```
        break;
```

```
    case 5:
```

```
        break;
```



```

    default:
    } system.out.println("Invalid choice");
} while (option != 5);
}
}

```

OUTPUT:-

Enter name Shashank

Enter acc No: 1

Enter name Sheemant

Enter acc no: 2

menu

1. Deposit

2. Withdraw

3. Display

4. Compute Interest (Savings only),

5. Exit

Enter your choice : 1

Enter acc type : saving

Enter deposit amount: 1000,

Amount deposited successfully.

Enter your choice : 1

Enter the acc type

Current

Enter amount to withdraw : 4500

Amount withdraw successfully

Penalty applied for low balance

Enter your choice : 3

Enter the acc type

Current

name: shomant

Account number: 2

Balance 300.0

Enter your choice: 2

Enter the acc type:

Saving

Enter amount to withdraw: 200

Insufficient balance

Enter your choice: 4

Enter the acc type

Saving

Interest credited 4.0

16/11/2024

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