

Lab-5

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Batch 2

To create account class and two subclass
savings account and current account

```
class account {
```

```
    String name, acc-no, acc-type;
```

```
    double balance;
```

```
    account (String name, String acc-no, String acc-type) {
```

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

```
        this.acc-no = acc-no;
```

```
        this.acc-type = acc-type;
```

```
        balance = 0;
```

```
    }
```

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

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

```
        balance += amount;
```

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

```
    }
```

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

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

```
        balance -= amount;
```

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

```
    }
```

```
}
```

```
class curr-acct extends account {
```

```
    curr-acct (String name, String acc-no, String acc-type) {
```

```
        super (name, acc-no, acc-type);
```

```
    }
```

```
    double service = 100;
```

```
    double min-bal = 3000;
```

```
    int charged = 0;
```

```
void check {
```

```
if (balance < min_bal && charged == 0) {
```

```
    balance -= service;
```

```
    charged = 1;
```

```
    System.out.println("Service + " deducted  
        due to low balance");
```

```
if (charged == 1)
```

```
{ System.out.println("your balance is low to  
    avoid being fined again increase your balance");
```

```
}
```

```
void disp bal() {
```

```
    check();
```

```
    System.out.println("your balance is " + balance);
```

```
}
```

```
}
```

```
class sav_acct extends account {
```

```
sav_acct (String name, String acc_no, String acc_type) {
```

```
    super (name, acc_no, acc_type);
```

```
}
```

```
int given = 0;
```

```
void interest() {
```

```
if (balance > 10000 && given == 0) {
```

```
    balance += 0.007 * balance;
```

```
    System.out.println("0.7% interest credited");
```

```
    given += 1;
```

```
}
```

```
if (balance > 100000 && given == 1) {
```

```
    balance += 0.005 * balance; given += 1;
```

```
    System.out.println("0.5% interest credited");
```

```
if (balance > 1000000 && given == 2) {
```

```
    balance += 0.002 * balance;
```

```
    System.out.println("0.2% interest credited");
```

```
    given += 1;
```

```
}
```

```
}
```



```
void disp-bal(){
```

```
interest();
```

```
System.out.println("Your balance is "+balance);
```

```
}
```

```
}
```

```
class bank{
```

```
public static void main(String[] args)
```

```
{ sav-acct sav = new sav-acct('A', '1b', "Savings");
```

```
System.out.println("Savings account function:");
```

```
sav.deposit(11000);
```

```
sav.disp-bal();
```

```
sav.withdraw(5000);
```

```
curr-acct cur = new curr-acct('B', '2b', "Current");
```

```
System.out.println("Current account functions:");
```

```
cur.deposit(5000);
```

```
cur.withdraw(2500);
```

```
cur.disp-bal();
```

```
}
```

```
}
```

Output:

Savings account functions:

balance: 0.0

updated balance: 11000.0

~~your account has been cr.~~

0.7% interest credited

your balance is 11077.0

balance: 11077.0

updated balance: 6077.0

Current account functions:

balance: 0.0

updated balance: 5000.0

balance: 5000.0

updated balance: 2500

100.0 deducted due to low balance

your balance is too low to avoid being fined again
increase your balance