

lab 5.

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

```
class bank {
```

```
    String bankname;
```

```
}
```

```
class account extends bank {
```

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

```
    String name, accType;
```

```
    double accnum;
```

```
    double Sacnum, caccnum;
```

```
    double ci;
```

```
    double rate, principal, year;
```

```
    void setd() {
```

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

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

```
        System.out.println("Account type:");
```

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

```
        System.out.print("Account-number:");
```

```
        accnum = sc.nextDouble();
```

```
        System.out.print("Savings Acc num:");
```

```
        Sacnum = sc.nextDouble();
```

```
        System.out.print("Current Acc num:");
```

```
        caccnum = sc.nextDouble();
```

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

```
        principle = sc.nextDouble();
```

```
        System.out.println("rate of interest:");
```

```
        rate = sc.nextDouble();
```

```
    }
```

```
}
```

```
class savings extends account1 {
```

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

```
double deposit, withdraw, pbalance, borrow, lend,  
rate1, year1, rate2, year2, ci;
```

```
double cid, cib;
```

```
void setd1() {
```

```
System.out.println("In ... Savings Account!!");
```

```
System.out.print("present Balance:");
```

```
pbalance = sc.nextDouble();
```

```
System.out.print("Deposited:");
```

```
deposit = sc.nextDouble();
```

```
System.out.print("withdrawn:");
```

```
withdraw = sc.nextDouble();
```

```
pbalance = (pbalance + deposit) - (withdraw);
```

```
}
```

```
void compint() {
```

```
System.out.println("In *** Details of lend amount");
```

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

```
lend = sc.nextDouble();
```

```
System.out.print("rate of deposition:");
```

```
rate1 = sc.nextDouble();
```

```
System.out.print("no of years deposited:");
```

```
year1 = sc.nextDouble();
```

```
System.out.println("In *** Details of borrowed Amount");
```

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

```
borrow = sc.nextDouble();
```

```
System.out.print("rate of borrowed:");
```

```
rate2 = sc.nextDouble();
```

Teacher's Signature : _____


```

System.out.print("No of years borrowed;");
year2 = Sc.nextDouble();
cib = borrow * (Math.pow(1 + (rate2 * 0.01), year2));
cid = lend * (Math.pow(1 + (rate1 * 0.04), year1));
if (cid > cib) {
    ci = cid - cib;
    pbalance1 = pbalance1 + cid;
    System.out.print("\n -- Acc Balance -- " + pbalance1);
}
else if (cib > cid) {
    ci = cib - cid;
    pbalance1 = pbalance1 - cib;
    System.out.print("\n -- Acc Balance -- " + pbalance1);
}
else
    System.out.println("comp int is zero and account
        balance is " + pbalance1);
}
}

```

class current extends accounts {

```

Scanner sc = new Scanner(System.in);
double deposit, withdraw, pbalance, min;

```

```

void setd() {

```

```

    System.out.print("\n -- current account -- ");
    System.out.print("present balance: ");
    pbalance = Sc.nextDouble();
    System.out.print("Deposited: ");
    deposit = Sc.nextDouble();

```

```
System.out.print("withdrawn:");
```

```
withdraw = Sc.nextDouble();
```

```
pbalance2 = (pbalance2 + deposit) - (withdraw);
```

```
}
```

```
void checkmin() {
```

```
    min = 2000;
```

```
    if (pbalance2 >= 2000) {
```

```
        System.out.println("min balance is maintained and acc balance  
is : " + pbalance2);
```

```
    }.
```

```
else if (pbalance2 < 2000) {
```

```
    System.out.println("min balance is not maintained");
```

```
    System.out.println("Service charge of 500 rs. is deducted");
```

```
    System.out.println("original balance : " + pbalance2);
```

```
    pbalance2 = pbalance2 - 500;
```

```
    System.out.println("After deduction balance : " + pbalance2);
```

```
}
```

```
else
```

```
    System.out.println("Invalid amount in bank");
```

```
}
```


