

## LAB PROGRAM-5 (1BM19CS158)

```

import java.util.*;
class Account
{
    String name, type;
    int acc-no;
    double amount;
    Scanner in = new Scanner(System.in);
    void type (int choice)
    {
        if (choice == 1)
            type = "Savings Account";
        if (choice == 2)
            type = "Current Account";
    }
    void input()
    {
        S.o.pln("Enter the Name, Account number and Balance:");
        name = in.next();
        acc-no = in.nextInt();
        amount = in.nextDouble();
    }
    void deposit()
    {
        S.o.pln("Enter the amount to be deposited:");
        double x = in.nextDouble();
        amount = amount + x;
    }
    void display()
    {

```

\_/\_/\_

```
S.o.pln("Name:" + name);
S.o.pln("Account number:" + acc-no);
S.o.pln("Type:" + type);
S.o.pln("balance:" + amount);
}
```

```
class Savings-acc extends Account
{
```

```
    double a, cinterest;
```

```
    int r, t;
```

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

```
    void withdrawLL()
```

```
{
    S.o.pln("Enter amount to be withdrawn:");
```

```
    double amtw = in.nextDouble();
```

```
    if (amtw <= amount)
```

```
        amount = amount - amtw;
```

```
    else
```

```
        S.o.pln("Invalid amount");
```

```
}
```

```
void cmp-interest()
```

```
{
```

```
    S.o.pln("Enter the rate and time:");
```

```
    r = in.nextInt();
```

```
    t = in.nextInt();
```

```
    a = amount * Math.pow(1 + (r * 0.01), t);
```

```
    cinterest = a - amount;
```

```
}
```



void display()

{

super.display();

s.o.pln("Compound Interest after "+t+" years: "+cinterest);

s.o.pln("Amount after "+t+" years: "+a);

}

}

class Current\_acc extends Account

{

double min=10000;

void input()

{

super.input();

s.o.pln("Enter amount to be withdrawn:");

void service-charge()

{

if (amount < min)

amount = amount - 500;

}

void display()

{

super.display();

}

}

class bankdemo

{

public static void main(String args[])

{

Scanner in = new Scanner(System.in);

\_/\_/\_

```
s.o.pln("Choose type of account.");
```

```
s.o.pln("1.Savings account.");
```

```
s.o.pln("2. Current account.");
```

```
int choice = in.nextInt();
```

```
if (choice == 1)
{
```

```
    Savings-acc b = new Savings-acc();
```

```
    b.type(choice);
```

```
    b.input();
```

```
    s.o.pln("Do you want to deposit or withdraw?")n1.Deposit.
```

```
    n2.Withdraw\n");
```

```
int ch = in.nextInt();
```

```
if (ch == 1)
```

```
    b.deposit();
```

```
else if (ch == 2)
```

```
    b.withdrawal();
```

```
else
```

```
    s.o.pln("Invalid choice");
```

```
    b.calc-interest();
```

```
    b.display();
```

```
}
```

```
else if (choice == 2)
```

```
{
```

```
    Current-acc b = new Current-acc();
```

```
    b.type(choice);
```

```
    b.input();
```

```
    b.deposit();
```

```
    b.service-charge();
```

```
    b.display();
```

```
}
```

```
else s.o.pln("Invalid choice");
```

```
} }
```