

```
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()
```

```
    {
```

```
        System.out.println("Enter name, Acc no &  
        Balance");
```

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

```
        acc-no = in.nextInt();
```

```
        amount = in.nextDouble();
```

```
    }
```

```
    void deposit()
```

```
    {
```

```
        System.out.println("Enter the amount  
        to be deposited : ");
```

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

```
        amount = amount + x; }
```



```
void display()
```

```
{  
    System.out.println("Name: " + name);  
    System.out.println("Account Number: " + acc_no);  
    System.out.println("Type: " + type);  
    System.out.println("Balance: " + amount);  
}
```

```
{  
class SavingsAcc extends Account
```

```
{  
    double a, interest;
```

```
    int r, t;
```

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

```
    void withdrawal()
```

```
{
```

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    System.out.println("Enter amount to be withdrawn");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

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

```
    if (amtW <= amount)
```

```
        amount = amount - amtW;
```

```
    else
```

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

```
}
```

```
void comp_interest()
```

```
{
```

```
    System.out.println("Enter the rate & time:");
```

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

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

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

```
    interest = a - amount;
```

```
}
```

```
void display()
```

```
{  
    super.display();
```

```
    System.out.println("Compound Interest after "+t+" years  
                        + interest);
```

```
    System.out.println("Amount after "+t+" years "+a);  
}
```

```
class CurrentAcc extends Account
```

```
{
```

```
    double min = 10000;
```

```
    void input()
```

```
{
```

```
        super.input();
```

```
}
```

```
    void serviceCharge()
```

```
{
```

```
        if (amount < min)
```

```
            amount = amount - 500;
```

```
}
```

```
    void display()
```

```
{
```

```
        super.display();
```

```
}
```

```
}
```

```
class Main BankDemo
```

```
{
```

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

```
{
```

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

```
        System.out.println("Choose type of account: 1.  
1. Savings account \n 2. Current Account");
```



```

int choice = in.nextInt();
if (choice == 1)
{
    Savings_acc b = new Savings_acc();
    b.type(choice);
    b.input();
    System.out.println("Do you want to deposit or  
withdraw? 1. Deposit  
2. Withdraw\n");
    int ch = in.nextInt();
    if (ch == 1)
    {
        b.deposit();
    }
    else if (ch == 2)
    {
        b.withdrawal();
    }
    else
    {
        System.out.println("Invalid choice");
        b.comp_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
{
    System.out.println("Invalid choice");
}
}
}

```

Choose type of account.

1.Savings account.

2.Current account.

1

Enter the Name,Account number and Balance:

srishti 123 30000

Do you want to deposit or withdraw?

1.Deposit.

2.Withdraw

1

Enter the amount to be deposited:

2300

Enter the rate and time:

2 2

Name:srishti

Account number:123

Type:Savings Account

balance:32300.0

Compound Interest after 2 years: 1304.9199999999983

Amount after 2 years: 33604.92

...Program finished with exit code 0

Press ENTER to exit console.