```
import java.util.*;
abstract class Account{
    Scanner in=new Scanner(System.in);
    String name, accnum, type;
    Account(String n, String a, String t){
    name=n;
    accnum=a;
    type=t;
    abstract void display();
    abstract void withdraw();
    abstract void deposit();
class Savacct extends Account{
    double r, amt,t;
    Savacct(String N, String A, String T, double AMT, double R, double y){
        super(N,A,T);
        amt=AMT;
        r=R;
        t=y;
    void withdraw(){
        System.out.println("Enter amount to withdraw");
        double z=in.nextFloat();
        if(z>amt)
        System.out.println("Insufficient Accout Balance");
        else
        amt=amt-z;
    void deposit(){
        System.out.println("Enter amount to deposit");
        double z=in.nextFloat();
        amt=amt+z;
    void interest(){
        double x = amt * Math.pow(1 + r, t);
        System.out.println("Interest="+(x-amt));
        amt=x;
    void display(){
        System.out.println("Amount="+amt);
```

```
class Curracct extends Account{
    double th,tax,amt;
    Curracct(String N, String A, String T, double AMT, double R, double thres){
        super(N,A,T);
        amt=AMT;
        tax=R;
        th=thres;
    void withdraw(){
        System.out.println("Enter amount to withdraw");
        double z=in.nextFloat();
        if(z>amt)
        System.out.println("Insufficient Accout Balance");
        amt=amt-z;
    void deposit(){
        System.out.println("Enter amount to deposit");
        double z=in.nextFloat();
        amt=amt+z;
    void sertax(){
        if(amt<th)</pre>
        amt=amt - (amt*tax/100);
    void display(){
        System.out.println("Amount="+amt);
class Bank{
    public static void main(String args[]){
        Scanner in = new Scanner(System.in);
        String name,accnum,typ;
        System.out.println("Enter Name, account number, account type");
        name=in.nextLine();
        accnum=in.nextLine();
        typ=in.nextLine();
        Account ac;
        if ("savings".equalsIgnoreCase(typ)){
            System.out.println("Enter initial Amount (principal), rate and time p
eriod in years");
            double amt=in.nextFloat();
            double rate=in.nextFloat();
            int t=in.nextInt();
            Savacct sav= new Savacct(name,accnum,typ,amt,rate,t);
```

```
ac=sav;
            ac.deposit();
            ac.withdraw();
            sav.interest();
            ac.display();
        else if ("current".equalsIgnoreCase(typ)){
            System.out.println("Enter initial Amount (principal), threshold and s
ervice tax");
            double amt=in.nextFloat();
            double t=in.nextFloat();
            int r=in.nextInt();
            Curracct cur= new Curracct(name,accnum,typ,amt,r,t);
            ac=cur;
            ac.deposit();
            ac.withdraw();
            cur.sertax();
            ac.display();
        else
        System.out.println("Invalid account type");
```

Output;

```
PS D:\Prg data\Java\OOJ Lab\Sample\" ; if (\$?) { javac Bank.java } ; if (\$?) { javac Bank
 Piyush
123X123
 savings
Enter initial Amount (principal), rate and time period in years
 10000
2
Enter amount to deposit
500
Enter amount to withdraw
 100
Interest=1248000.0
  Amount=1258400.0
 PS D:\Prg data\Java\OOJ Lab\Sample\" ; if ($?) { javac Bank.java } ; if ($?) { javac Bank.java }
 Raghav
  4323
  current
  Enter initial Amount (principal), threshold and service tax
  10000
 200
 2
Enter amount to deposit
1000
Enter amount to withdraw
10
Amount=10990.0
  PS D:\Prg data\Java\OOJ Lab\Sample> cd "d:\Prg data\Java\OOJ Lab\Sample\" ; if ($?) { javac Bank.java } ; if ($?) { java Bank }
  Enter Name, account number, account type
  Pinto
  90ed
 Recurring
Invalid account type
  PS D:\Prg data\Java\OOJ Lab\Sample>
```