

Lab 5

```
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, String  
            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();
```

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```
if (z > amt)
    System.out.println("Insufficient  
Account Balance");
```

else

```
amt = amt - z;
}
```

```
void deposit () {
```

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

```
    double z = in.nextFloat();
```

```
    amt = amt + z;
```

```
}
```

```
void display () {
```

```
    System.out.println("Amount = " + amt);
}
```

```
}
```

```
class Curract extends Account {
```

```
    double th, tax, amt;
```

```
    Curract (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.next Double ();

if (z > amt)

~~amt = amt - z~~

System.out.println("Insufficient amount");

else

amt = amt - z;

}

void deposit () {

System.out.println("Enter amount to deposit");

double z = in.next Double ();

amt = amt + z;

}

void settax () {

if (amt < th)

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, acc number, type");

```

name = in.nextLine();
accnum = in.nextLine();
typ = in.nextLine();
Account ac;
if ("savings".equalsIgnoreCase(typ)) {
    System.out.println("Enter initial
                        amount, rate &
                        time");
    double amt = in.nextDouble();
    double rate = in.nextDouble();
    int t = in.nextInt();
    Savacc sav = new Savacc(name,
                             accnum, typ,
                             amt, rate, t);

    ac = sav;
    ac.deposit();
    ac.withdraw();
    sav.setInterest() sav.setInterest();
    ac.display() ac.display();
}
else if ("current".equalsIgnoreCase(typ)) {
    System.out.println("Enter initial amount,
                        threshold & service fee");

    double amt = in.nextDouble();
    double r = in.nextDouble();
    int x = in.nextInt();

```



```
Current cur = new Current (name, accnum,  
typ, amt, t);
```

```
ac = cur;  
ac.deposit();  
ac.withdraw();  
ac.display();  
}
```

```
else  
System.out.println ("Invalid account type");  
}  
}
```