

PROGRAM 2

```

import java.util.Scanner;
abstract class Account {
    String cName, accType;
    long accNo;
    double bal;
    final double minBal = 1000.0;
    Account (String cName, long accNo,
              double bal, String accType)
    {
        this.accNo = accNo;
        this.cName = cName;
        this.bal = bal;
        this.accType = accType;
    }
    abstract void addBal (double amt);
    abstract void dispBal ();
    abstract void withBal (double amt);
}
class Cur_acc_t extends Account {
    Cur_acc_t (String cName, long accNo, double bal) {
        super (cName, accNo, bal, "Current");
        System.out.println ("Name: " + cName + " | accNo: "
                             + accNo + " | bal: " + bal + " | type: "
                             + accType);
    }
    void addBal (double amt) {
        this.bal += amt;
    }
    void dispBal () {
        System.out.println ("your Balance is: " + this.bal);
    }
    void checkBal () {

```



```
if (this.bal < minBal) {  
    System.out.println("Insufficient balance, Penalty");  
    this.bal -= this.bal * 0.02;  
}  
}
```

```
void withBal (double amt) {  
    this.bal -= amt;  
    checkBal ();  
}  
}
```

```
class Sav-act extends Account {  
    Sav-act (String cName, long accNo, bal, "Savings");  
    double bal;  
    Super (cName, accNo, bal, "Savings");  
    System.out.println("name: " + cName +  
        "\t accNo: " + accNo + "\t bal: " + bal +  
        "\t type: " + acctype);  
}
```

```
void addBal (double amt) {  
    this.bal += amt;  
    addIntr ();  
}
```

```
void addIntr () {  
    this.bal += this.bal * 0.07;  
}
```

```
void dispBal () {  
    System.out.println("Your Balance with Interest: " + this.bal);  
}
```

```
void withBal (double amt) {
```

```
    this.bal -= amt;  
}
```



```
class Bank {
    public static void main (String [] args)
    {
        Scanner sc = new Scanner (System.in);
        Double amt;
        System.out.println("Enter your Details:");
        System.out.println("Name:");
        String x = sc.next();
        System.out.println("Account No:");
        long y = sc.nextLong();
        for (;;)
        {
            System.out.println("Type of account: | No
            1. Current account | n
            2. Savings account | n
            3. exit");
            int t = sc.nextInt();
            if (t == 1) {
                System.out.println("The Current Account
                provides cheque book facility but no
                interest.");
                Curr-act c = new Curr-act(x, y, 1000);
                for (.;)
                {
                    System.out.println("1: Deposit | n
                    2: Display Balance | n
                    3: Withdraw | n
                    4: Exit");
                    int ch = sc.nextInt();
                    Switch (ch) {
                        Case 1:
                            System.out.println("Enter the amount to be
                            added:");
```


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```
amt = sc.nextDouble();  
c.addBal (amt);  
break;
```

Case 2:

```
c.display ();  
break;
```

Case 3:

```
System.out.println("Enter amount to be withdrawn");  
amt = sc.nextDouble();  
c.withBal (amt);  
break;
```

Case 4: System.exit(0);

```
default: System.out.println("Invalid choice");  
}  
}
```

else if (t == 2) {

System.out.println("The Savings account provides compound interest and withdrawal facilities but no cheque book facility");

```
sav_acct s = new sav_acct (x, y, 1000);  
for (i; i) {
```

```
System.out.println("1. Deposit\n
```

```
2. Display Balance\n
```

```
3. Withdrawal\n
```

```
4. Exit");
```

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

```
switch (ch) {
```

case 1:

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

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

```
s.addBal (amt);
```

```
break;
```


Case 2:

s. dispBal ();

break;

Case 3:

System.out.println ("Enter amount to Withdraw");
amt = sc.nextDouble ();

s. With Bal (amt);

break;

Case 4: System.exit(0);

default :

System.out.println ("Invalid choiu");

{

}

}

else if (t == 3)

System.exit(0);

else

System.out.println ("Invalid choiu");

}