

LAB-5

```
import java.util.Scanner;
abstract class account {
    String accname, acctype;
    long accnum;
    double balance;
    final int minbal = 1000;
    account(String name, long num, double bal, String type) {
```

```
        accname = name;
        accnum = num;
        balance = bal;
        acctype = type;
    }
```

```
    abstract void addBal(double amt);
    abstract void dispBal();
    abstract void withdraw(double amt);
}
```

```
class curr-act extends account {
    curr-act(String name, long num, double bal, String type)
```

```
    {
        super(name, num, bal, type);
        System.out.println("name:" + accname + "\naccnum:"
            + "\nbalance:" + balance + "\nacctype: Current");
    }
```

```
    void addBal(double amount) {
        balance = balance + amount;
    }
```

```
    void dispBal() {
        System.out.println("Your balance is" + balance);
    }
}
```

```

void withdraw(double amount){
    if(balance < amount){
        System.out.println("You don't have enough balance");
        System.out.println("Balance is" + balance);
        return;
    }
    balance = balance - amount;
    System.out.println("balance =" + balance);
    if(balance < minbal){
        System.out.println("Penalty of Rs." + (balance * 0.01)
            + "as balance is less than minimum");
        balance = balance - balance * 0.01;
        System.out.println("Current balance =" + balance);
    }
}

class sav_act extends account{
    sav_act(String name, long num, double bal){
        super(name, num, bal, "Savings");
        System.out.println("name:" + accname + "\t accno : " +
            accnum + "\t bal: " + bal + "\t type: " + acctype);
    }
    void addBal(double amount){
        balance = balance + amount;
        interest();
    }
    void interest(){
        int t=2;
        balance = balance * Math.Pow(1 + (a2), t);
    }
}

```



```

void dispBal() {
    System.out.println("Your balance is:" + balance);
}

void withdraw(double amount) {
    balance = balance - amount;
    System.out.println("Balance = " + balance);
}
}

```

```

public class Main
{

```

```

    public static void main(String args[]) {
        Scanner SC = new Scanner(System.in);
        Curr-acct C = new Curr-acct("jay", 123456,
                                     3000.0, "Current");
        double amount;
        int flag = 0;
        while (flag == 0) {
            System.out.println("1. Add Bal \n 2. Display Bal \n
                               3. withdraw \n 4. Check Book \n 5. quit");
            int ch = SC.nextInt();
            Switch(ch) {
                case 1:
                    System.out.println("Enter amount to be withdrawn");
                    amount = SC.nextDouble();
                    C.withdrawn(amount);
                    break;
                case 2:
                    C.dispBal();
                    break;

```

Case 3:

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

amount = Sc.nextDouble();

C.withdraw(amount);

break;

default:

flag = 1;

}
}

Sav acct S = new Sav_acct("jennie", 500.67, 7000)

flag = 0;

while(flag == 0){

System.out.println("1. Add bal\n2. display Bal\n3. withdraw\n4. quit");

int ch = Sc.nextInt();

Switch (ch){

Case 1:

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

amount = Sc.nextDouble();

S.addBal(amount);

break;

Case 2:

S.dispBal();

break;

Case 3:

System.out.println("Enter amt to be withdrawn:");

amount = Sc.nextDouble();

S.withdraw(amount);

break;

} default: flag = 1;

}
}