```
class Account{
        private String name;
        private String account;
        private double bal;

        public Account (String name, String accnum, double ball){
        this.name = name;
        this.account = account;
        this.bal = bal;
        }

        public void deposit (double amt){
                if (amt > 0){
                        bal+=amt;
                        System.out.println("Depositetd" + amt);
                }
                else{
                        System.out.println("Invalid Deposit");
                }
        }

        public void displayBal(){
                System.out.println("Balance" + bal);
        }

        public void withdraw (double amt){
                if (amt>0 && amt<=bal){
                        bal-=amt;
                        System.out.println("Withdraw: "+amt);
                }
                else{
                System.out.println("Insufficient Funds");
                }
        }
        public double getBal(){
                return bal;
        }

        public void setBal(double Bal){
                this.bal = bal;
        }
}

class SavAct extends Account{
        private static final double int_rate = 0.05;
        public SavAct (String name, String accnum, double bal){
                super(name, accnum, bal);
```

```
        }
        public void addInterest(){
                double interest = getBal() * int_rate;
                setBal(getBal() + interest);
                System.out.println("Interest added:" + interest);
        }
}
class CurAct extends Account{
        public static final double win_bal = 500;
        public static final double penalty = 50;
        public CurAct(String name, String accnum, double bal){
                super(name, accnum, bal);
        }
        public void withdraw (double amt){
                if (amt>0 && getBal() - amt>=0){
                        setBal(getBal() - amt);
                        System.out.println("Withdraw: " + amt);
                        checkMinBal();
                }
                else{
                        System.out.println("Insufficient Funds");
                }
        }
        private void checkMinBal(){
                if (getBal() < win_bal){
                        setBal(getBal()-penalty);
                        System.out.println("Below min balance, penalty: "+penalty);
                }
        }
}
public class Bank{
        public static void main(String[] args){
                SavAct savacc = new SavAct("Rahul","Rahul13",1000);
                CurAct curacc = new CurAct("Rohan","Rohan14",500);
                System.out.println("Savings Account: ");
                savacc.deposit(500);
                savacc.displayBal();
                savacc.addInterest();
                savacc.withdraw(200);
                savacc.displayBal();

                System.out.println("\n Current Account: ");
                curacc.deposit(1000);
                curacc.displayBal();
                curacc.withdraw(1000);
                curacc.displayBal();
                curacc.withdraw(200);
        }
}
```

```
C:\Users\Admin\Desktop\src>java Main
Student 1 Info:
USN: USN123
Name: Alice
Semester: 3
Internal Marks:
20 30 25 28 22
External Marks:
60 70 55 65 50
Final Marks (Internal + External):
80 100 80 93 72

Student 2 Info:
USN: USN124
Name: Bob
Semester: 3
Internal Marks:
18 25 20 23 28
External Marks:
50 65 60 58 45
Final Marks (Internal + External):
68 90 80 81 73
```