```
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PE-20
1032201304
problem statement-8 (banking system)
code
package pracexam;
import java.util.*;
class mininterest extends Exception{
       mininterest(){
               super("interest rate is low");
       }
}
interface Rbi{
       int mininterestrate=4;
       long minimumbalance=300000,
       maxwithdrawallimit=20000;
        void checkminbalance();
        void checkmaxwithdrawallimit();
}
interface Account extends Rbi{
       String bankname="";
       long accno= 00000000;
       long balance=0;
```

```
long withdrawalamount=0;
}
class SBI implements Account{
       int interestRate;
       String name;
       long accountno;
       long balance;
       long withdrawalamount;
       SBI(int Intrate, String Name, long accno, long balance, long withdrawalamount){
               this.interestRate=Intrate;
               this.name=Name;
               this.accountno= accno;
               this.balance=balance;
               this.withdrawalamount=withdrawalamount;
               checkmaxwithdrawallimit();
       }
       public void printDetails() {
               System.out.println("bankname:"+bankname);
                       System.out.println("name of account holder:"+name);
               System.out.println("accountno:"+accountno);
               System.out.println("withdrawal amont:"+withdrawalamount);
               System.out.println("interest rate:"+interestRate);
       }
```

```
public void checkminbalance() {
       try {
               if(balance<minimumbalance) {</pre>
                       throw new Exception("current blanace is less than minimum balance");
               }
       }catch(Exception e) {
               System.out.println(e);
       }
}
public void
checkmaxwithdrawallimit() {
       try {
               if (withdrawalamount>maxwithdrawallimit) {
               }
       }catch (Exception e) {
               System.out.println(e);
       }
}
}
class PNB implements Account{
        String bankname="Pnb";
        int interestRate;
        String name;
        long accountno;
        long balance;
        long withdrawalamount;
```

```
PNB(int Intrate, String Name, long accno, long balance, long withdrawalamount){
               this.interestRate=Intrate;
               this.name=Name;
               this.accountno= accno;
               this.balance=balance;
               this.withdrawalamount=withdrawalamount;
               checkmaxwithdrawallimit();
       }
       public void printDetails() {
               System.out.println("bankname:"+bankname);
                       System.out.println("name of account holder:"+name);
               System.out.println("accountno:"+accountno);
               System.out.println("withdrawal amont:"+withdrawalamount);
               System.out.println("interest rate:"+interestRate);
       }
public void checkminbalance() {
       try {
               if(balance<minimumbalance) {</pre>
                       throw new Exception("current blanace is less than minimum balance");
               }
       }catch(Exception e) {
```

```
System.out.println(e);
       }
}
public void
checkmaxwithdrawallimit() {
       try {
               if (withdrawalamount>maxwithdrawallimit) {
               }
       }catch (Exception e) {
               System.out.println(e);
       }
}
}
class ICICI implements Account{
        String bankname="ICICI";
        int interestRate;
        String name;
        long accountno;
        long balance;
        long withdrawalamount;
        ICICI(int Intrate, String Name, long accno, long balance, long withdrawalamount){
               this.interestRate=Intrate;
               this.name=Name;
               this.accountno= accno;
               this.balance=balance;
               this.withdrawalamount=withdrawalamount;
```

```
checkmaxwithdrawallimit();
       }
        public void printDetails() {
               System.out.println("bankname:"+bankname);
                       System.out.println("name of account holder:"+name);
               System.out.println("accountno:"+accountno);
               System.out.println("withdrawal amont:"+withdrawalamount);
               System.out.println("interest rate:"+interestRate);
       }
public void checkminbalance() {
       try {
               if(balance<minimumbalance) {</pre>
                       throw new Exception("current blanace is less than minimum balance");
               }
        }catch(Exception e) {
               System.out.println(e);
       }
}
public void
checkmaxwithdrawallimit() {
       try {
               if (withdrawalamount>maxwithdrawallimit) {
               }
```

```
}catch (Exception e) {
               System.out.println(e);
       }
}
}
public class bank{
        public static void main(String[]args) {
               SBI account=new SBI(2,"Ankit",1032201304,1000,500000);
               account.printDetails();
               System.out.println("\n\n");
               PNB acc=new PNB(2,"shreyas",1032201305,1000,400000);
               acc.printDetails();
               System.out.println("\n\n");
               ICICI acc1=new ICICI(2,"kaustubh",1032201307,1000,600000);
               acc1.printDetails();
               System.out.println("\n\n");
       }
       }
```

output-

