

Class Assignment

```
class Customer{      //base class or super class
int id;
String name;
double balance;
static String bankName="state of india";

//constructor
Customer(int id,String name,double balance){
this.id=id;
this.name=name;
this.balance=balance;
}

//method to display data
void display()
{
System.out.println("Customer Id:"+id+"\n"+"Customer Name:"+name+"\n"+"Customer
Balance:"+balance+"\n"+"Customer Bank_Name:"+bankName);
}

//calculate simple interest
void calInterest()
{
    double si=(balance*3*7.5)/100;
    System.out.println("Simple Interest="+si);
}
```

```
}
```

```
//derived class
```

```
class ClassicCustomer extends Customer{
```

```
double r;
```

```
//constructor
```

```
ClassicCustomer(int id,String name,double balance,double r){
```

```
super(id,name,balance);           //super to call base class constructor
```

```
this.r=r;
```

```
}
```

```
//display method to print data
```

```
void display(){
```

```
System.out.println("Customer Id:"+id+"\n"+"Customer Name:"+name+"\n"+"Customer  
Balance:"+balance+"\n"+"Customer Bank_Name:"+bankName +"\n"+  
"Interest Rate:"+r);
```

```
}
```

```
//simple interest calculate
```

```
void callInterest(){
```

```
double si = (balance*3*r)/100;
```

```
System.out.println("Simple Interest: "+si);
```

```
//System.out.println();
```

```
}
```

```
//main method
```

```
public static void main(String[] args){
```

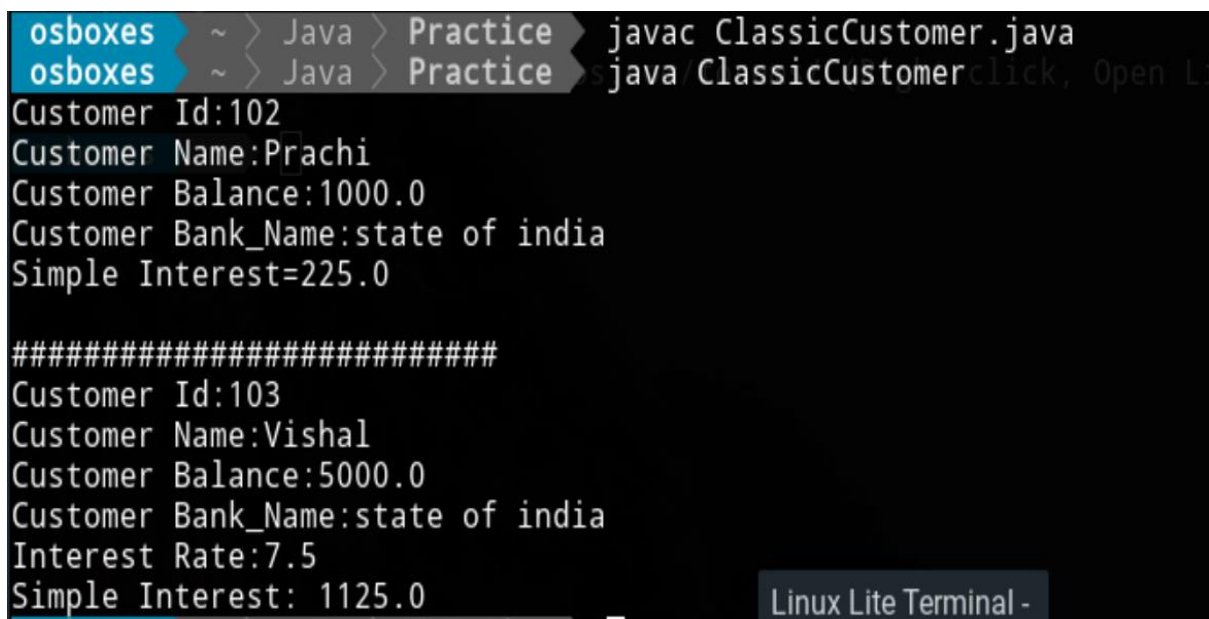
```
//ClassicCustomer cl=new ClassicCustomer(101,"Prachi",30000,8.5);
```

```

//cl.display();
//cl.callInterest();
//System.out.println();
//System.out.println("#####");
Customer c=new Customer(102,"Prachi",1000);
c.display();
c.callInterest();
System.out.println();
System.out.println("#####");
Customer c1=new ClassicCustomer(103,"Vishal",5000,7.5); //runtime polymorphism
c1.display();
c1.callInterest();
}
}

```

Output:



```

osboxes ~ > Java > Practice > javac ClassicCustomer.java
osboxes ~ > Java > Practice > java ClassicCustomer
Customer Id:102
Customer Name:Prachi
Customer Balance:1000.0
Customer Bank_Name:state of india
Simple Interest=225.0

#####
Customer Id:103
Customer Name:Vishal
Customer Balance:5000.0
Customer Bank_Name:state of india
Interest Rate:7.5
Simple Interest: 1125.0
Linux Lite Terminal -

```