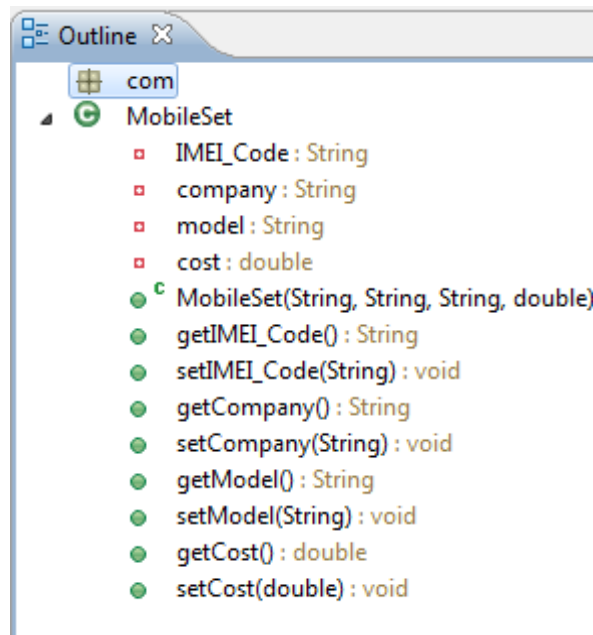Following is the class outline of "MobileStoreManagementSystem" :
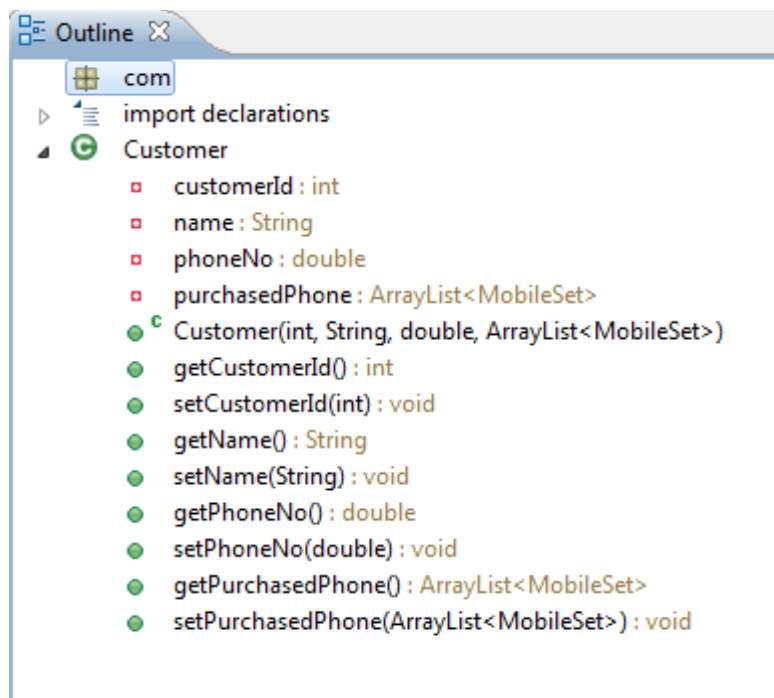
Class1: MobileSet

```
Outline ⊠
    ⊞ com
    ▲ ⓖ MobileSet
        ◻  IMEI_Code : String
        ◻  company : String
        ◻  model : String
        ◻  cost : double
        ●ᶜ MobileSet(String, String, String, double)
        ●  getIMEI_Code() : String
        ●  setIMEI_Code(String) : void
        ●  getCompany() : String
        ●  setCompany(String) : void
        ●  getModel() : String
        ●  setModel(String) : void
        ●  getCost() : double
        ●  setCost(double) : void
```
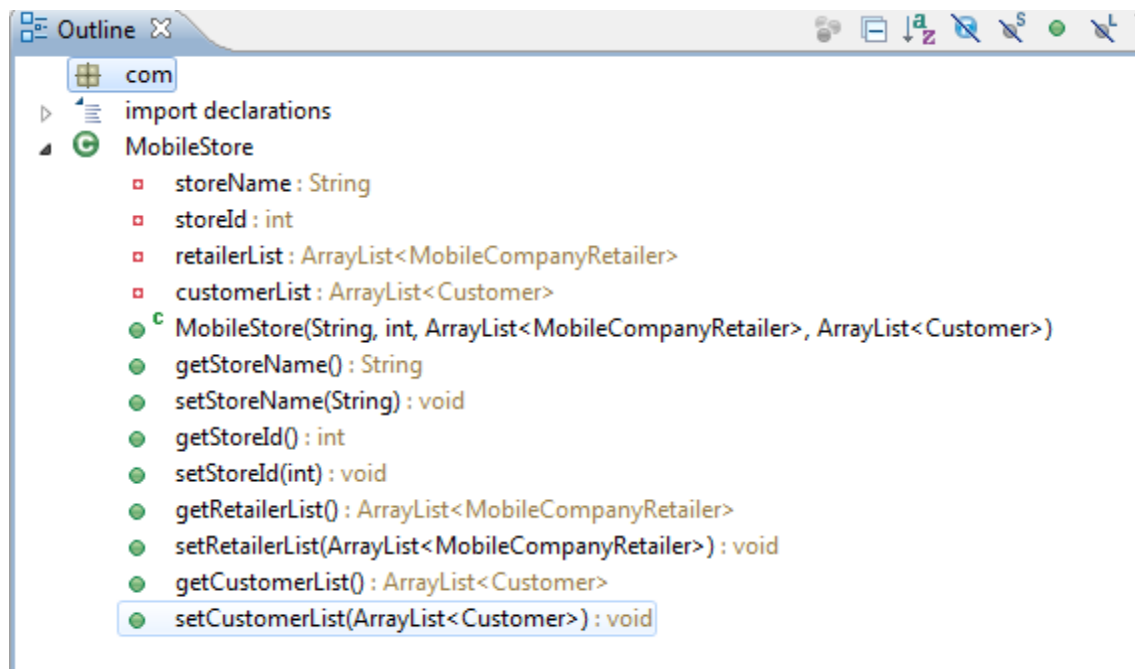
Class 2: MobileCompanyRetailer

```
Outline ⊠                                              ⧉ ⊟ ↓
    ⊞ com
    ▷ ⬚ import declarations
    ▲ ⓖ MobileCompanyRetailer
        ◻  retailerId : int
        ◻  mobileCompanyName : String
        ◻  commisionPerSet : double
        △  ms : ArrayList<MobileSet>
        ●ᶜ MobileCompanyRetailer(int, String, double, ArrayList<MobileSet>)
        ●  getRetailerId() : int
        ●  setRetailerId(int) : void
        ●  getMobileCompanyName() : String
        ●  setMobileCompanyName(String) : void
        ●  getCommisionPerSet() : double
        ●  setCommisionPerSet(double) : void
        ●  getMs() : ArrayList<MobileSet>
        ●  setMs(ArrayList<MobileSet>) : void
```
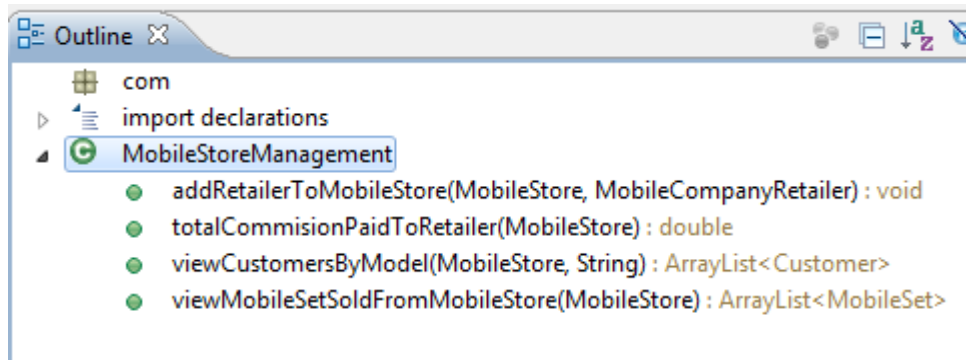
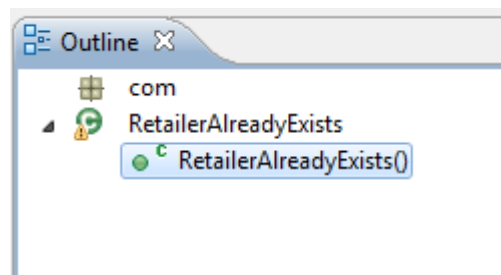## Class 3: Customer

Class 4: MobileStore

Class 5: `MobileStoreManagement`

Class 6: `RetailerAlreadyExists`

Below is the description of methods:

1.addRetailerToMobileStore(MobileStore store, MobileCompanyRetailer retailer):void

This method first checks whether the given retailer is associated with given mobile store
or not. If it is associated then an exception "RetailerAlreadyExists" is thrown. If not
then retailer is added to the retailer list of the store.

2.totalCommissionPaidToRetailer(MobileStore ms): double

This method calculates the total commission paid by mobile store to the retailers.
It is assumed that if a retailer is associated with a store then he will sell all the
mobile sets to same store.
Total commission for one retailer= (No Of sets sold*commission per set)

3.viewCustomersByModel(MobileStore ms,String model): ArrayList<Customer>

This method returns the list of all the customers who bought mobile of given model from
the given store.

4.viewMobileSetSoldFromMobileStore(MobileStore store):ArrayList<MobileSet>

This method returns the list of all the mobile sets sold from the given mobile store.