

Create package com.

Create a class Order with below attributes:

```
orderId int
itemNameString
category String
price double
insuranceAmount double
```

Make all the attributes private. Create corresponding getters and setters.

Create a constructor which takes all parameters in the above sequence. The constructor should set the value of attributes to parameter values inside the constructor.

Create a class OrderDemo with main method

The logic for on\_road\_price calculation is:

on\_road\_price=price+insuranceAmount+service charges

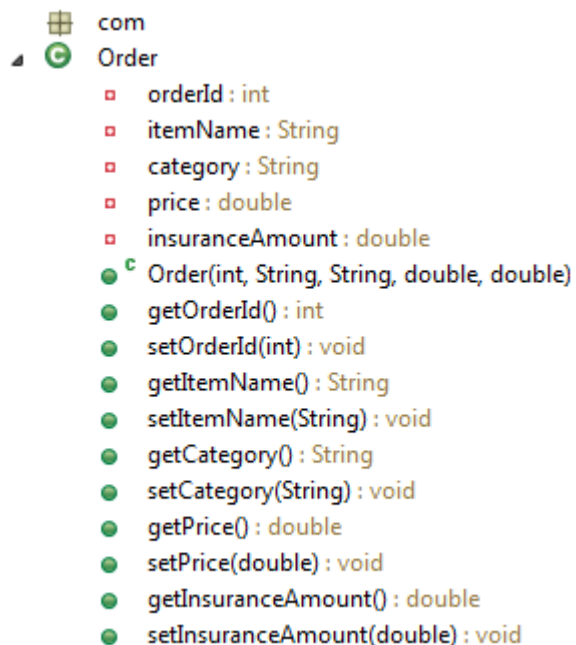
if category is 'Bike' , service charge is 10% of price

if category is 'Car' , service charge is 7% of price

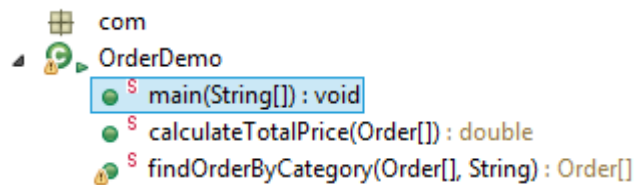
Create a static method calculateTotalPrice which takes array of Order objects .Use the above logic to calculate the on\_road\_price of each order and sum the on\_road\_price and return the calculated double value. The check should not be case sensitive.

Create a static method findOrderByCategory which takes array of Order objects and category as input parameter and returns the order object based on the category . The check should not be case sensitive.

Consider below image to refer exact class and method templates.



```
com
└── Order
    ├── orderId : int
    ├── itemName : String
    ├── category : String
    ├── price : double
    ├── insuranceAmount : double
    ├── Order(int, String, String, double, double)
    ├── getOrderId() : int
    ├── setOrderId(int) : void
    ├── getItemName() : String
    ├── setItemName(String) : void
    ├── getCategory() : String
    ├── setCategory(String) : void
    ├── getPrice() : double
    ├── setPrice(double) : void
    ├── getInsuranceAmount() : double
    └── setInsuranceAmount(double) : void
```



Please ensure that class names, attribute names, method signature etc. is same as above. Else your code will fail and score would be zero.

Refer below sample main method and test the output. You can copy the same code in main method and test the implementation.

Next submit the code in iASCERT for evaluation. Also, upload the code in iON assignment activity.

#### Sample main method:

```
public static void main(String[] args) {
    // TODO Auto-generated method stub
    Order[] orderList = new Order[5];
    orderList[0] = new Order(1234, "Scooty", "Bike", 30000, 1000);
    orderList[1] = new Order(1235, "Activa", "Bike", 40000, 1000);
    orderList[2] = new Order(1236, "Splendour", "Bike", 55000, 1000);
    orderList[3] = new Order(1237, "Swift", "Car", 250000, 2000);
    orderList[4] = new Order(1238, "Alto", "Car", 200000, 7000);

    double totalPrice = OrderDemo.calculateTotalPrice(orderList);
    System.out.println(totalPrice);
    Order[] orderCategory = OrderDemo.findOrderByCategory(orderList,
"Car");
    for(Order order:orderCategory)
        System.out.println(order.getId() + order.getItemName() +
order.getCategory() + order.getPrice()
+ order.getInsuranceAmount());
}
```

#### Output:

```
631000.0
1237SwiftCar250000.02000.0
1238AltoCar200000.07000.0
```

