

# Project1\_Unit1

By Yi (Elliot) Cao

Andrew: yc2

## Project1\_unit1:

Overall Comments: 1.5 points taken off

-1 CRUD operations not demonstrated

-0.5 properties of option class should all be private (you have not mentioned any access identifier)

## Changes made to reclaim the points:

- CRUD operations have been demonstrated carefully in java classes and the package and class usage also listed in the next page
- Change the option class properties to be private and option class is protected as required in the instruction

Test case is listed in the page 4 and 5.

And 1.5 possible points could be returned for the project1\_unit1.

## Overall understanding of unit1:

As for this unit1, I strictly follow the requirements and give adequate test. The auto object can be built successfully. Automobile class completed with access method for all CRUD operations for Option, OptionSet and Automotive class. Properties Option and OptionSet class are protected. Data is populated into Automotive instance using a text file. Serialization and Deserialization is used.

## How to Run My Code:

- 1.Import the project
2. Run driver.java

Package and classes list:

**Model:**

Automobile: encapsulate all necessary operations and attributes for car

OptionSet: encapsulate all optionset and options' operation and attributes

**Util:**

FileIO: used to build auto object and serialization and deserialization

**List details of the built auto and serialize :**

car name:Focus Wagon ZTW

the OptionSet name:Color

Option [name=Fort Knox Gold Clearcoat Metallic, price=0.0]

Option [name=Liquid Grey Clearcoat Metallic, price=0.0]

Option [name=Infra-Red Clearcoat, price=0.0]

Option [name=Grabber Green Clearcoat Metallic, price=0.0]

Option [name=Sangria Red Clearcoat Metallic, price=0.0]

Option [name=French Blue Clearcoat Metallic, price=0.0]

Option [name=Twilight Blue Clearcoat Metallic, price=0.0]

Option [name=CD Silver Clearcoat Metallic, price=0.0]

Option [name=Pitch Black Clearcoat, price=0.0]

Option [name=Cloud 9 White Clearcoat, price=0.0]

the OptionSet name:Transmission

Option [name=Automatic, price=0.0]

Option [name=Standard, price=-815.0]

the OptionSet name:Brakes/Traction Control

Option [name=Standard, price=0.0]

Option [name=ABS, price=400.0]

Option [name=ABS with Advance Trac, price=1625.0]

the OptionSet name:Side Impace Air Bags

Option [name=None, price=0.0]

Option [name=If Selected, price=350.0]

the OptionSet name:Power Moonroof

Option [name=None, price=0.0]

Option [name=If Selected, price=595.0]

serilization successful!

## De-serialize :

now begin deserialization!

car name:Focus Wagon ZTW

the OptionSet name:Color

Option [name=Fort Knox Gold Clearcoat Metallic, price=0.0]

Option [name=Liquid Grey Clearcoat Metallic, price=0.0]

Option [name=Infra-Red Clearcoat, price=0.0]

Option [name=Grabber Green Clearcoat Metallic, price=0.0]

Option [name=Sangria Red Clearcoat Metallic, price=0.0]

Option [name=French Blue Clearcoat Metallic, price=0.0]

Option [name=Twilight Blue Clearcoat Metallic, price=0.0]

Option [name=CD Silver Clearcoat Metallic, price=0.0]

Option [name=Pitch Black Clearcoat, price=0.0]

Option [name=Cloud 9 White Clearcoat, price=0.0]

the OptionSet name:Transmission

Option [name=Automatic, price=0.0]

Option [name=Standard, price=-815.0]

the OptionSet name:Brakes/Traction Control

Option [name=Standard, price=0.0]

Option [name=ABS, price=400.0]

Option [name=ABS with Advance Trac, price=1625.0]

the OptionSet name:Side Impact Air Bags

Option [name=None, price=0.0]

Option [name=If Selected, price=350.0]

the OptionSet name:Power Moonroof

Option [name=None, price=0.0]

Option [name=If Selected, price=595.0]