

Portfolio Milestone Option 1 - Automobile Inventory

Create an automobile class that will be used by a dealership as a vehicle inventory program.

Pseudocode

```
// Declare Automobile Class

// Declare private Attributes
private String ID
private String make
private String model
private String color
private int year
private int mileage

// Declare Automobile Methods
// add try-catch with success/failure message

Automobile() { // default constructor
    // Set default values for attributes
    ID
    make
    model
    color
    year
    mileage
}

Automobile(String make, String model, String color, int year, int mileage) {
    // parameterized constructor
    // Set given values for attributes
    this.ID
    this.make
    this.model
    this.color
    this.year
    this.mileage
}

// repeat set method template for all fields
setMake(String make) { // update vehicle attributes methods
    this.make = make
}

updateAuto() { // iterate through Automobile set methods for user input
    try
        print attribute
```

```

        ask user for attribute updated value
        pass value to attribute set method
        print success message
    catch typeError for user input is wrong type
        print error message
}

// repeat get method template for all fields
getMake() {return make} // list single attributes

getAutoInfo() { // list vehicle information (return HashMap)
    HashMap<String, String> autoInfo = new HashMap<>()
    // add Auto attribute name, value pairs for each attribute
    autoInfo.put("make", getmake()) // "make" attribute example
    print HashMap
}

// Declare AutomobileInventory Class
// Declare main method

    // Declare objects
    ArrayList<Automobile> autoList
    Scanner

    // While loop to call methods with user input
    While userInput not "q"
        // try-catch for user commands
        addAuto()
        listAutoInventory()
        removeAuto()
        addAuto()
        updateAuto()
        exportInventory()
    //finally block to close open resources

// Declare AutomobileInventory methods
addAuto() { // parametarized Automobile constructor with user input
    try
        for each attribute
            print attribute name
            ask for user input with Scanner
            call parameterized Automobile constructor with user input
            print success message
        catch typeError if input wrong type
            print error message
    }

listAutoInventory() { // print each Automobile in inventory per row}

removeAuto() { // remove auto from inventory based on ID from user input
    try

```

```
        remove Automobile from autoList
        print success message
    catch value not found
        print error message
}

exportInventory() { // print information to file}
```