**Car-Service Management System - Requirement 2**

**Requirement 2:**

1. Create a Car Class with the following attributes:

|  |  |
| --- | --- |
| **Member Field Name** | **Type** |
| licenceNumber | String |
| model | String |
| currentMileage | Double |
| engineSize | Integer |

1. Mark all the attributes as private & Create appropriate Getters & Setters

1. Add a default constructor and a parameterized constructor to take in all attributes in the given order

 Car(String licenceNumber,String model,Double currentMileage,Integer engineSize)

1. Add a static method **findCar** in Car class which takes licenceNumber as input and returns the Car if the car object is found or null if the car object is not found.

1. Add a static **findCarList** method in Car class which will take a model(car model) and carList(list of cars) as parameters and return a List of cars for the given model from the list or null if no cars found. For these conditions, please refer the content to be printed in Sample IO.  
   Override the toString method to print the car details :  
   Print format:  
   **Licence Number:licenceNumber  
   Model:model**

**Sample Input & Output:**

Menu:   
1) Add a Car   
2) Find a Car   
3) Find CarList   
4) Exit   
**1**   
Licence Number:   
**MH1420110062821**   
Model:   
**Verna**   
Current Mileage:   
**24.35**   
Engine Size:   
**1461**   
Menu:   
1) Add a Car   
2) Find a Car   
3) Find CarList   
4) Exit   
**1**   
Licence Number:   
**MH1420110062823**   
Model:   
**Swift**   
Current Mileage:   
**17.35**   
Engine Size:   
**1231**   
Menu:   
1) Add a Car   
2) Find a Car   
3) Find CarList   
4) Exit   
**1**   
Licence Number:   
**MH1420110045821**   
Model:   
**Verna**   
Current Mileage:   
**14.35**   
Engine Size:   
**1231**   
Menu:   
1) Add a Car   
2) Find a Car   
3) Find CarList   
4) Exit   
**2**   
Licence Number   
**MH1420110062821**   
Licence Number:MH1420110062821   
Model:Verna   
Menu:   
1) Add a Car   
2) Find a Car   
3) Find CarList   
4) Exit   
**3**   
Model   
**Verna**   
Licence Number:MH1420110062821   
Model:Verna   
Licence Number:MH1420110045821   
Model:Verna   
Menu:   
1) Add a Car   
2) Find a Car   
3) Find CarList   
4) Exit   
**2**   
Licence Number   
**MH1420110062823**   
Licence Number:MH1420110062823   
Model:Swift   
Menu:   
1) Add a Car   
2) Find a Car   
3) Find CarList   
4) Exit   
**3**   
Model   
**Figo**   
Car Figo not found   
Menu:   
1) Add a Car   
2) Find a Car   
3) Find CarList   
4) Exit   
**4** 

**Sample Input and output 2:**

Menu:   
1) Add a Car   
2) Find a Car   
3) Find CarList   
4) Exit   
**1**   
Licence Number:   
**TN1220151247856**   
Model:   
**Verna**   
Current Mileage:   
**22**   
Engine Size:   
**1230**   
Menu:   
1) Add a Car   
2) Find a Car   
3) Find CarList   
4) Exit   
**2**   
Licence Number   
**TN1220151247415**   
Licence Number not present   
Menu:   
1) Add a Car   
2) Find a Car   
3) Find CarList   
4) Exit   
**4**