**Motor Doctor**

Motor Doctor is a well-known car service centre that has been providing exceptional car services for over 10 years. They are known for their efficient services, affordable prices, and exceptional customer service. To further enhance their services, the management has decided to develop a new application that will help them analyze and manipulate service details based on the service number and service type

You being their software consultant help them with the process by developing a C# application.

Functionalities:

In class Service, implement the below-given properties.

Data Type Properties

string ServiceNumber

string OwnerName

string CarModel

string ServiceType

In class Program, implement the below given method. public static List Service ServiceList in the code template, it is already provided implement the features listed below.

**Methods**

*public void AddServiceDetails (string[] serviceDetails)*

Description

This method is used to add the service details into the ServiceList. This method should separate the values in each string by a colon (:) from the input array and assign those values to the Service object, then add each object to the ServiceList. Before adding the details, validate the service type. If the service type should be Brake or Oil or General. Otherwise, don't add it.

Note: Service type is case sensitive.

*public Service ViewDetailsByServiceNumber(string serviceNumber)*

This method is used to find the service details based on the serviceNumber passed as an argument. If the serviceNumber is found in the ServiceList, then add those service details to the Service object and return it. else, return null.

*public List<Service> ViewDetailsByServiceType(string serviceType)*

This method is used to find the service details based on the serviceType passed as an argument. If the service Type is found in the ServiceList, then add those service details to the List and return that List. else, return an empty list.

In Program class Main method,

1. Get the values from the user

2. Call the methods accordingly and display the result

-If the ViewDetailsByServiceNumber method returns null, then display "Service number not found

-If the ViewDetailsByServiceType method returns an empty list, then display "Service type not found.

3. In the Sample Input/Output provided, the highlighted text in bold corresponds to the input given by the user and the remaining text represents the output

***Sample Input and Output***

*1. Add Service Details*

*2. View Details By Service Number*

*3. View Details By Service Type*

*4. Exit*

Enter the choice

1

Enter the number of entries

5

AP1:Abraham:Audi A4:Brake

AP2:Adam:Santro:Oil

AP3:Mathew:Lancer:General

AP4:Lisa:Audi Q5: Tyre

AP5: John Cooper:Brake

*1. Add Service Details*

*2. View Details By Service Number*

*3. View Details By Service Type*

*4. Exit*

Enter the choice

2

Enter the service number

AP437

Service Number: AP437, Name: Adam, Car Model : Santro, Service Type : Oil

*1. Add Service Details*

*2. View Details By Service Number*

*3. View Details By Service Type*

*4. Exit*

Enter the choice

2

Enter the service number

AP439

Service number not found

*1. Add Service Details*

*2. View Details By Service Number*

*3. View Details By Service Type*

*4. Exit*

Enter the choice

3

Enter the service type

Brake

ServiceNumber OwnerName CarModel ServiceType

AP436 John Cooper Brake

AP440 Abraham Audi A4 Brake

*1. Add Service Details*

*2. View Details By Service Number*

*3 View Details By Service Type*

*4. Exit*

Enter the choice:

3

Enter the service type

Tyre

Service type not found

*1. Add Service Details*

*2. View Details By Service Number*

*3. View Details By Service Type*

*4. Exit*

Enter the choice

4

Thank you.