

```
1 using System;
2 using System.Collections.Generic;
3 using System.Data;
4 using System.Linq;
5 using System.Text;
6 using System.Threading.Tasks;
7
8 namespace CarParts
9 {
10     public class Lists
11     {
12         /// <summary>
13         /// Get manufacturers
14         /// </summary>
15         /// <param name="dt"></param>
16         /// <returns>List of strings</returns>
17         public static List<string> Manufacturers(DataTable dt)
18         {
19             List<string> tempManufacturers = new List<string>();
20
21             //-- loop through getting the manufacturers
22             foreach (DataRow row in dt.Rows)
23             {
24                 //-- create an object to hold the data
25                 PartData lineData = new PartData()
26                 {
27                     ManuNumber = Convert.ToInt32(row.Field<string>(0)),
28                     Manufacturer = row.Field<string>(1),
29                     Model = row.Field<string>(2),
30                     Part = row.Field<string>(3)
31                 };
32
33                 //-- we are still working with the row of data
34                 //-- check if it's already been added to list
35                 tempManufacturers
36                 //-- use the Utility class's method StringFound
37                 if (!Utility.StringFound(tempManufacturers,
38                     lineData.Manufacturer))
39                 {
40                     tempManufacturers.Add(lineData.Manufacturer);
41                 }
42             }
43             return tempManufacturers;
44         }
45
46         /// <summary>
47         /// Get models by manufacturer selected
48         /// </summary>
49         /// <param name="dt"></param>
50         /// <param name="manufacturerName"></param>
51         /// <returns>List of strings</returns>
52         public static List<string> ModelsByManufacturer(DataTable dt, string
53             manufacturerName)
```

```
54         List<string> tempModels = new List<string>();
55
56         foreach (DataRow row in dt.Rows)
57         {
58             //-- create an object to hold the data
59             PartData lineData = new PartData()
60             {
61                 ManuNumber = Convert.ToInt32(row.Field<string>(0)),
62                 Manufacturer = row.Field<string>(1),
63                 Model = row.Field<string>(2),
64                 Part = row.Field<string>(3)
65             };
66
67             if (lineData.Manufacturer == manufacturerName)
68             {
69                 if (!Utility.StringFound(tempModels, lineData.Model))
70                 {
71                     tempModels.Add(lineData.Model);
72                 }
73             }
74         }
75
76         return tempModels;
77     }
78
79     /// <summary>
80     /// Get parts for a selected model
81     /// </summary>
82     /// <param name="dt"></param>
83     /// <param name="modelName"></param>
84     /// <returns>list of strings</returns>
85     public static List<string> PartsByModel(DataTable dt, string modelName)
86     {
87         List<string> tempParts = new List<string>();
88
89         foreach (DataRow row in dt.Rows)
90         {
91             //-- create an object to hold the data
92             PartData lineData = new PartData()
93             {
94                 ManuNumber = Convert.ToInt32(row.Field<string>(0)),
95                 Manufacturer = row.Field<string>(1),
96                 Model = row.Field<string>(2),
97                 Part = row.Field<string>(3)
98             };
99
100             if (lineData.Model == modelName)
101             {
102                 if (!Utility.StringFound(tempParts, lineData.Part))
103                 {
104                     tempParts.Add(lineData.Part);
105                 }
106             }
107         }
108     }
```

```
109         return tempParts;
110     }
111 }
112 }
113
```