```
1  //-- *************************
2  //-- CLASS:      ImportData
3  //-- AUTHOR:     Paul McKillop
4  //-- CREATED:    26 November 2018
5  //-  PURPOSE:    Retrieve data from text file returned as a DataTable
6  //-- *************************
7
8  using System;
9  using System.Data;
10 using System.IO;
11 using System.Text.RegularExpressions;
12 using System.Collections.Generic;
13 using System.Linq;
14 using System.Text;
15 using System.Threading.Tasks;
16
17 namespace Motoring
18 {
19     public class ImportData
20     {
21         /// <summary>
22         /// GetTextFileData
23         /// </summary>
24         /// <param name="strFilePath"></param>
25         /// <returns></returns>
26         public static DataTable GetTextFileData(string strFilePath)
27         {
28             StreamReader sr = new StreamReader(strFilePath);
29             // Read the first line only for column headers
30             // and use these to create the DataTable columns
31             string[] headers = sr.ReadLine().Split(',');
32             DataTable dt = new DataTable();
33
34             //- headers
35             foreach (string header in headers)
36             {
37                 dt.Columns.Add(header);
38             }
39
40             // Read the reamining data into the DataTable
41             // to the EndOfStream
42             while (!sr.EndOfStream)
43             {
44                 // Regex with escape caharacters
45                 string[] rows = Regex.Split(sr.ReadLine(), ",(?=(?:[^\"]*\"[^
                    \"]*\")*[^\"]*$)");
46                 DataRow dr = dt.NewRow();
47                 for (int i = 0; i < headers.Length; i++)
48                 {
49                     dr[i] = rows[i];
50                 }
51                 dt.Rows.Add(dr);
52             }
53
54             // return the DataTable from the method
55             return dt;
```

```
56          }
57      }
58  }
59
```