

```
1 using System;
2 using System.Collections.Generic;
3 using System.Text;
4
5 /*
6  * Title:    Utility
7  * Author:   Paul McKillop
8  * Date:    17 March 2020
9  * Purpose: Arithmetic methods
10 */
11
12 namespace GymTrackingV
13 {
14     public class Utility
15     {
16         #region String is found in list
17
18         /// <summary>
19         /// Check if a string is already in a list
20         /// </summary>
21         /// <param name="listToSearch"></param>
22         /// <param name="stringToFind"></param>
23         /// <returns>Boolean</returns>
24         public static bool StringFound(List<string> listToSearch, string stringToFind)
25         {
26             //-- tracker variable
27             bool stringFound = false;
28             //-- Loop through all
29             foreach (string value in listToSearch)
30             {
31                 if (value == stringToFind)
32                 {
33                     stringFound = true;
34                     return stringFound;
35                 }
36             }
37
38             //-- return true or false: in list, or not
39             return stringFound;
40         }
41
42         #endregion
43
44         public static float CalculateActivityRate(string machine, string level,
45             string duration)
46         {
47             float valueTemp = 0;
48
49             return valueTemp;
50         }
51     }
52 }
```

```
51      //-- Calculate minutes as a proportion of an hour to work out relevant rate
52      public static double MinutesFractionOfHour(int minutes)
53      {
54          return (double)minutes / 60;
55      }
56
57      //-- present total exercise time in hours and minutes
58      public static string HoursAndMinutes(int minutes)
59      {
60          var tempString = string.Empty;
61
62          int minutesRemainder = minutes % 60;
63          int hours = (int)minutes / 60;
64
65          tempString = hours.ToString() + " Hours and " + minutesRemainder + " minutes";
66
67          return tempString;
68      }
69  }
70 }
71
```