



Working with Dates

Date and Time

The exercise on the right shows some of the things you can do with DateTime.

The results are as follows:

```
Hour: 16
Minutes: 30
14 April 2020
14/04/2020
16:30:31
16:30
2020-04-14 16:30
Press any key to continue . . .
```

```
1  using System;
2
3  namespace usingDateTime
4  {
5      class Program
6      {
7          static void Main(string[] args)
8          {
9              var dateTime = new DateTime(2020, 4, 14);
10             var now = DateTime.Now;
11             var today = DateTime.Today;
12
13             Console.WriteLine("Hour: " + now.Hour);
14             Console.WriteLine("Minutes: " + now.Minute);
15
16             var tomorrow = now.AddDays(1);
17             var yesterday = now.AddDays(-1);
18
19             Console.WriteLine(now.ToLongDateString());
20             Console.WriteLine(now.ToShortDateString());
21             Console.WriteLine(now.ToLongTimeString());
22             Console.WriteLine(now.ToShortTimeString());
23
24             Console.WriteLine(now.ToString("yyyy-MM-dd HH:mm"));
25
26         }
27     }
28 }
29
```

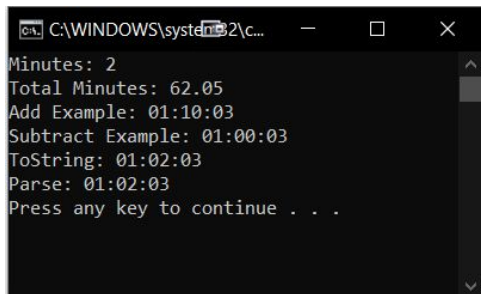


Timespan

Exercise - TimeSpan

The exercise on the right shows some of the things you can do with TimeSpan.

The results are as follows:



```
C:\WINDOWS\system32\cmd.exe
Minutes: 2
Total Minutes: 62.05
Add Example: 01:10:03
Subtract Example: 01:00:03
ToString: 01:02:03
Parse: 01:02:03
Press any key to continue . . .
```

```
1 using System;
2
3 namespace Timespan
4 {
5     class Program
6     {
7         static void Main(string[] args)
8         {
9             //creating
10            var timeSpan = new TimeSpan(1, 2, 3);
11
12            var timeSpan1 = new TimeSpan(1, 0, 0);
13            var timeSpan2 = TimeSpan.FromHours(1); //More readable
14
15            var start = DateTime.Now;
16            var end = DateTime.Now.AddMinutes(2);
17            var duration = end - start; //timespan
18            Console.WriteLine("Duration: " + duration);
19
20            //Properties
21            Console.WriteLine("Minutes: " + timeSpan.Minutes);
22            Console.WriteLine("Total Minutes: " + timeSpan.TotalMinutes);
23
24            // Add
25            Console.WriteLine("Add Example: " + timeSpan.Add(TimeSpan.FromMinutes(8)));
26            Console.WriteLine("Subtract Example: " + timeSpan.Subtract(TimeSpan.FromMinutes(2)));
27
28            // ToString
29            Console.WriteLine("ToString: " + timeSpan.ToString());
30
31            // Parse
32            Console.WriteLine("Parse: " + TimeSpan.Parse("01:02:03"));
33        }
34    }
35 }
```