

```
1 using ClockTask;
2 using CounterTask;
3 using System.Diagnostics.Metrics;
4
5 namespace TestClock
6 {
7     public class Tests
8     {
9         public Clock clock;
10
11         [SetUp]
12         public void Setup()
13         {
14             clock = new Clock();
15         }
16
17         [Test]
18         public void TestTimeReal()
19         {
20             Assert.That(clock.Time(), Is.EqualTo("00:00:00"));
21         }
22
23         [Test]
24         public void TestTickSecond()
25         {
26             clock.Tick();
27             Assert.That(clock.Time(), Is.EqualTo("00:00:01"));
28         }
29
30         [Test]
31         public void TestTickMinute()
32         {
33             for (int i = 0; i < 60; i++)
34             {
35                 clock.Tick();
36             }
37             Assert.That(clock.Time(), Is.EqualTo("00:01:00"));
38         }
39
40         [Test]
41         public void TestTickHour()
42         {
43             for (int i = 0; i < 3600; i++)
44             {
45                 clock.Tick();
46             }
47             Assert.That(clock.Time(), Is.EqualTo("01:00:00"));
48         }
49     }
```

50 }