```csharp
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4
5  namespace Iteration1
6  {
7      public class IdentifiableObject
8      {
9          private List<string> _identifiers;
10
11         public IdentifiableObject(string[] idents)
12         {
13             _identifiers = new List<string>();
14             foreach (string ident in idents)
15             {
16                 _identifiers.Add(ident.ToLower());
17             }
18
19
20         }
21
22         public bool AreYou(string name)
23         {
24             foreach (string idents in _identifiers)
25             {
26                 if (idents.ToLower() == name.ToLower())
27                 {
28                     return true;
29                 }
30             }
31
32             return false;
33         }
34
35         public string FirstID
36         {
37             get
38             {
39                 if (_identifiers.Count == 0)
40                 {
41                     return "";
42                 }
43                 else
44                 {
45                     return _identifiers.First();
46
47                 }
48             }
49         }
```
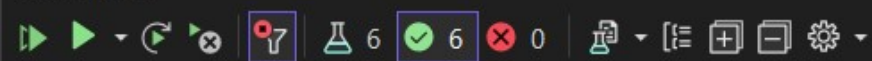
```
50
51        public void AddIdentifier(string id)
52        {
53            _identifiers.Add(id.ToLower());
54        }
55    }
56 }
```

```csharp
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Text;
5  using System.Threading.Tasks;
6
7  namespace SwinAdventure
8  {
9      public class Program
10     {
11         static void Main(string[] args)
12         {
13             Console.WriteLine("Hello World!");
14         }
15     }
16 }
17
```

```csharp
1  using NUnit.Framework;
2  using Iteration1;
3
4  namespace IdentifiableObjectTest
5  {
6      public class UnitTest1
7      {
8          public IdentifiableObject id1;
9          public IdentifiableObject id2;
10
11          [SetUp]
12          public void Setup()
13          {
14              id1 = new IdentifiableObject(new string[] { "fred", "bob" });
15              id2 = new IdentifiableObject(new string[] { });
16          }
17
18          [Test]
19          public void TestAreYou()
20          {
21              Assert.That(id1.AreYou("bob"), Is.True);
22              Assert.That(id1.AreYou("fred"), Is.True);
23          }
24
25          [Test]
26          public void TestNotAreYou()
27          {
28              Assert.That(id1.AreYou("wilma"), Is.False);
29          }
30
31          [Test]
32          public void TestCaseSensitive()
33          {
34              Assert.That(id1.AreYou("FRED"), Is.True);
35              Assert.That(id1.AreYou("bOB"), Is.True);
36          }
37
38          [Test]
39          public void TestFirstID()
40          {
41              Assert.That(id1.FirstID, Is.EqualTo("fred"));
42          }
43
44          [Test]
45          public void TestNoLastID()
46          {
47              Assert.That(id2.FirstID, Is.EqualTo(""));
48          }
49
```

```
50          [Test]
51          public void TestAddID()
52          {
53              id1.AddIdentifier("Wilma");
54
55              Assert.That(id1.AreYou("bob"), Is.True);
56              Assert.That(id1.AreYou("fred"), Is.True);
57              Assert.That(id1.AreYou("wilma"), Is.True);
58          }
59      }
60  }
```

Test Explorer

Test run finished: 6 Tests (6 Passed, 0 Failed, 0 Skipped) run in 126 ms

⚠ 0 Warnings   ⊗ 0 Errors

Test	Duration	Traits	Error Messa...	
◢ ✅ UnitTestIdentifiers (6)	4 ms			
◢ ✅ IdentifiableObjectTest (6)	4 ms			
◢ ✅ UnitTest1 (6)	4 ms			
✅ TestAddID	3 ms			
✅ TestAreYou	< 1 ms			
✅ TestCaseSensitive	< 1 ms			
✅ TestFirstID	1 ms			
✅ TestNoLastID	< 1 ms			
✅ TestNotAreYou	< 1 ms			

Group Summary

UnitTestIdentifiers
  Tests in group : **6**
  🕐 Total Duration : **4 ms**

Outcomes
  ✅ **6 Passed**