

# Program.cs

...\COS20007\Week\_2\2.4P - Answers\Iteration1\Program.cs

1

---

```
1 namespace Iteration1
2 {
3     internal class Program
4     {
5         static void Main(string[] args)
6         {
7             Console.WriteLine("Iteration1");
8         }
9     }
10 }
11
```

# IdentifiableObject.cs

...eek\_2\2.4P - Answers\Iteration1\IdentifiableObject.cs

1

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Text;
5 using System.Threading.Tasks;
6
7 namespace Iteration1
8 {
9     public class IdentifiableObject
10    {
11        private List<string> _identifiers = new List<string>();
12
13        public IdentifiableObject(string[] idents)
14        {
15            for (int i = 0; i < idents.Length; i++)
16            {
17                _identifiers.Add(idents[i].ToLower());
18            }
19        }
20        public bool AreYou(string id)
21        {
22            if (_identifiers.Contains(id.ToLower()))
23            {
24                return true;
25            }
26            return false;
27        }
28        public string FirstId()
29        {
30            if (_identifiers.Any())
31            {
32                return _identifiers.First();
33            }
34            return "";
35        }
36        public void AddIdentifier(string id)
37        {
38            _identifiers.Add(id.ToLower());
39        }
40    }
41 }
42
```

# UnitTest1.cs

...\_2\2.4P - Answers\TestIdentifiableObject\UnitTest1.cs

1

```
1 using Iteration1;
2
3 namespace TestIdentifiableObject
4 {
5     public class Tests
6     {
7         private IdentifiableObject myObject;
8
9         [SetUp]
10        public void SetUp()
11        {
12            myObject = new IdentifiableObject(new string[] { "fred",
13                "bob" });
14
15        [Test]
16        public void TestAreYou()
17        {
18            Assert.That(myObject.AreYou("bob"), Is.EqualTo(true));
19            Assert.That(myObject.AreYou("fred"), Is.EqualTo(true));
20
21            Assert.Pass();
22        }
23
24        [Test]
25        public void TestNotAreYou()
26        {
27            Assert.That(myObject.AreYou("wilma"), Is.EqualTo(false));
28            Assert.That(myObject.AreYou("boby"), Is.EqualTo(false));
29
30            Assert.Pass();
31        }
32
33        [Test]
34        public void TestCaseSentive()
35        {
36            Assert.That(myObject.AreYou("FRED"), Is.EqualTo(true));
37            Assert.That(myObject.AreYou("bOB"), Is.EqualTo(true));
38
39            Assert.Pass();
40        }
41
42        [Test]
43        public void TestFirstId()
44        {
45            Assert.That(myObject.FirstId(), Is.EqualTo("fred"));
46
47            Assert.Pass();
48        }
49    }
50 }
```

```
49
50     [Test]
51     public void TestFirstIdWithoutIDs()
52     {
53         IdentifiableObject myObject = new IdentifiableObject(new string[] { });
54
55         Assert.That(myObject.FirstId(), Is.EqualTo(""));
56
57         Assert.Pass();
58     }
59
60     [Test]
61     public void TestAddId()
62     {
63         myObject.AddIdentifier("wilma");
64
65         Assert.That(myObject.AreYou("fred"), Is.EqualTo(true));
66         Assert.That(myObject.AreYou("bob"), Is.EqualTo(true));
67         Assert.That(myObject.AreYou("wilma"), Is.EqualTo(true));
68
69         Assert.Pass();
70     }
71 }
72 }
```

# Screenshot of Test Passing

