Selected files

}

42

```
2 printable files
Week 2/2.4/IdentifiableObject.cs
Week 2/TestIdentifiableObject/TestIdentifiableObject.cs
Week_2/2.4/IdentifiableObject.cs
   using System;
 2
   using System.Collections.Generic;
    using System.Ling;
 3
    using System.Threading.Tasks;
 4
 5
    namespace SwinAdventure
 6
 7
    {
 8
 9
        public class IdentifiableObject
10
            private List<string> _identifiers = new List<string>();
11
12
            public IdentifiableObject(string[] idents)
13
14
                 foreach (string id in idents)
15
16
                     AddIdentifier(id);
17
                 }
18
            }
19
20
21
            public bool AreYou(string id)
22
23
                 return _identifiers.Contains(id.ToLower());
            }
24
25
26
            public string FirstId
27
28
                get
                 {
29
30
                     if (_identifiers.Count > 0)
31
                         return _identifiers[0];
32
                     }
33
34
                     return "";
35
                 }
36
37
            }
38
            public void AddIdentifier(string id)
39
40
                _identifiers.Add(id.ToLower());
41
```

```
43
44
             public void PrivilegeEscalation(string pin)
45
             {
                 if (pin != "4794")
46
47
                     return;
48
49
                 if ( identifiers.Count == 0)
50
                 {
                     AddIdentifier("12");
51
                 }
52
53
                 else
54
                 {
                     _identifiers[0] = "12";
55
56
                 }
57
            }
58
        }
59 }
```

Week_2/TestIdentifiableObject/TestIdentifiableObject.cs

```
using System;
 2 using System.Collections.Generic;
 3 using System.Ling;
   using System.Threading.Tasks;
 4
 5 using NUnit.Framework;
   using SwinAdventure;
 7
 8
   namespace NUnitTests
 9
   {
        [TestFixture]
10
        public class TestIdentifiableObject
11
12
13
            private IdentifiableObject _idObj;
14
            private IdentifiableObject _emptyIdObj;
            private IdentifiableObject _idObjWithNoStuId;
15
16
17
            [SetUp]
            public void SetUp()
18
19
                _idObj = new IdentifiableObject(new string[] { "104844794", "Minh An",
20
    "Nguyen" });
                _emptyIdObj = new IdentifiableObject(new string[] { });
21
                 _idObjWithNoStuId = new    IdentifiableObject(new string[] { "1234", "Minh
22
         "Nguyen" });
23
            }
24
            [TestCase]
25
            public void TestAreYou()
26
27
            {
28
                Assert.IsTrue(_id0bj.AreYou("104844794"));
29
                Assert.IsTrue(_id0bj.AreYou("Minh An"));
            }
30
```

```
31
            [TestCase]
32
            public void TestNotAreYou()
33
34
            {
35
                Assert.IsFalse(_id0bj.AreYou("104844795"));
36
            }
37
            [TestCase]
38
39
            public void TestCaseSensitive()
40
            {
                Assert.IsTrue(_id0bj.AreYou("miNh aN"));
41
                Assert.IsTrue(_id0bj.AreYou("NgUyEn"));
42
43
            }
44
45
            [TestCase]
            public void TestFirstId()
46
47
48
                Assert.AreEqual("104844794", _id0bj.FirstId);
49
            }
50
            [TestCase]
51
            public void TestFirstIdWithNoId()
52
53
            {
                Assert.AreEqual("", _emptyIdObj.FirstId);
54
55
            }
56
            [TestCase]
57
            public void TestAddId()
58
59
            {
                _idObj.AddIdentifier("Andy");
60
                Assert.IsTrue(_id0bj.AreYou("Andy"));
61
            }
62
63
            [TestCase]
64
            public void TestPrivilegeEscalation()
65
66
67
                _idObjWithNoStuId.PrivilegeEscalation("4794");
                Assert.AreEqual("12", _idObjWithNoStuId.FirstId);
68
69
            }
        }
70
71 }
```

Screenshot of unit tests passing:

