

Selected files

3 printable files

Swinburne/OOP/Week 2/2.4/IdentifiableObject.cs

Swinburne/OOP/Week 2/2.4/Program.cs

Swinburne/OOP/Week 2/TestIdentifiableObject/TestIdentifiableObject.cs

Swinburne/OOP/Week 2/2.4/IdentifiableObject.cs

```
1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Threading.Tasks;
5
6  namespace SwinAdventure
7  {
8
9      public class IdentifiableObject
10     {
11         private List<string> _identifiers = new List<string>();
12
13         public IdentifiableObject(string[] idents)
14         {
15             foreach (string id in idents)
16             {
17                 AddIdentifier(id);
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                 {
32                     return _identifiers[0];
33                 }
34
35                 return "";
36             }
37         }
38
39         public void AddIdentifier(string id)
40         {
41             _identifiers.Add(id.ToLower());
```

```

42     }
43
44     public void PrivilegeEscalation(string pin)
45     {
46         if (pin != "4794")
47             return;
48
49         if (_identifiers.Count == 0)
50         {
51             AddIdentifier("104844794");
52         }
53         else
54         {
55             _identifiers[0] = "104844794";
56         }
57     }
58 }
59 }

```

Swinburne/OOP/Week 2/2.4/Program.cs

```

1 namespace SwinAdventure
2 {
3     class Program
4     {
5         static void Main()
6         {
7
8         }
9     }
10 }

```

Swinburne/OOP/Week 2/TestIdentifiableObject/TestIdentifiableObject.cs

```

1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5 using NUnit.Framework;
6 using SwinAdventure;
7
8 namespace NUnitTests
9 {
10     [TestFixture]
11     public class TestIdentifiableObject
12     {
13         private IdentifiableObject _idObj;
14         private IdentifiableObject _emptyIdObj;
15         private IdentifiableObject _idObjWithNoStuId;
16
17         [SetUp]
18         public void SetUp()

```

```
19     {
20         _idObj = new IdentifiableObject(new string[] { "104844794", "Minh An",
"Nguyen" });
21         _emptyIdObj = new IdentifiableObject(new string[] { });
22         _idObjWithNoStuId = new IdentifiableObject(new string[] { "1234", "Minh
An", "Nguyen" });
23     }
24
25     [TestCase]
26     public void TestAreYou()
27     {
28         Assert.IsTrue(_idObj.AreYou("104844794"));
29         Assert.IsTrue(_idObj.AreYou("Minh An"));
30     }
31
32     [TestCase]
33     public void TestNotAreYou()
34     {
35         Assert.IsFalse(_idObj.AreYou("104844795"));
36     }
37
38     [TestCase]
39     public void TestCaseSensitive()
40     {
41         Assert.IsTrue(_idObj.AreYou("miNh aN"));
42         Assert.IsTrue(_idObj.AreYou("NgUyEn"));
43     }
44
45     [TestCase]
46     public void TestFirstId()
47     {
48         Assert.AreEqual("104844794", _idObj.FirstId);
49     }
50
51     [TestCase]
52     public void TestFirstIdWithNoId()
53     {
54         Assert.AreEqual("", _emptyIdObj.FirstId);
55     }
56
57     [TestCase]
58     public void TestAddId()
59     {
60         _idObj.AddIdentifier("Andy");
61         Assert.IsTrue(_idObj.AreYou("Andy"));
62     }
63
64     [TestCase]
65     public void TestPrivilegeEscalation()
66     {
67         _idObjWithNoStuId.PrivilegeEscalation("4794");
```

```

68     Assert.IsTrue(_idObjWithNoStuId.AreYou("104844794"));
69 }
70 }
71 }

```

Screenshot of unit tests passing:

