

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Threading.Tasks;
5 using _2._4P;
6 using NUnit.Framework;
7
8
9 namespace NUnitTests
10 {
11     [TestFixture]
12     public class TestIdentifiableObject
13     {
14         private IdentifiableObject _objectIdentifier;
15         private IdentifiableObject _emptyObjectIdentifier;
16         private IdentifiableObject _objectIdentifierNoStuId;
17
18         [SetUp]
19         public void Setup()
20         {
21             _objectIdentifier = new IdentifiableObject(new string[]
22                 { "104772183", "Khoi Nguyen", "Pham" });
23             _emptyObjectIdentifier = new IdentifiableObject(new string[]
24                 { });
25             _objectIdentifierNoStuId = new IdentifiableObject(new string[]
26                 { "1111", "Khoi Nguyen", "Pham" });
27         }
28
29         [TestCase]
30         public void TestAreYou()
31         {
32             Assert.IsTrue(_objectIdentifier.AreYou("104772183"));
33             Assert.IsTrue(_objectIdentifier.AreYou("Khoi Nguyen"));
34         }
35
36         [TestCase]
37         public void TestNotAreYou()
38         {
39             Assert.IsFalse(_objectIdentifier.AreYou("nonexistent
40                 identifier"));
41         }
42
43         [TestCase]
44         public void TestFirstId()
45         {
46             Assert.AreEqual("104772183", _objectIdentifier.FirstId);
47         }
48
49         [TestCase]
50         public void TestFirstIdWithNoId()
51         {
52         }
```

```
50         Assert.AreEqual("", _emptyObjectIdentifier.FirstId);
51     }
52
53     [TestCase]
54     public void TestAddId()
55     {
56         _objectIdentifier.AddIdentifier("Nevan");
57         Assert.IsTrue(_objectIdentifier.AreYou("Nevan"));
58     }
59
60     [TestCase]
61     public void TestCaseSensitivity()
62     {
63         Assert.IsTrue(_objectIdentifier.AreYou("khOI NGUYEN"));
64         Assert.IsTrue(_objectIdentifier.AreYou("PhAM"));
65     }
66
67     [TestCase]
68     public void TestPrivilegeEscalation()
69     {
70
71
72         string correctPin = "2183";
73         string expectedFirstId = "7";
74
75
76         _objectIdentifierNoStuId.PrivilegeEscalation(correctPin);
77
78         // Assert
79         Assert.AreEqual(expectedFirstId,
80             _objectIdentifierNoStuId.FirstId);
81     }
82
83
84
85
86 }
87
88
```