```
...g\Projects\4.2P\IdentifiableObjectTest\UnitTest1.cs
```

```
1
```

```
1 using _4._2P;
2 using System;
3 using System.Collections.Generic;
4 using System.Linq;
5 using System.Threading.Tasks;
6 using NUnit.Framework;
7 using System.Numerics;
8
9
10 namespace NUnitTests
11 {
        [TestFixture]
12
13
       public class TestIdentifiableObject
14
15
            private IdentifiableObject _objectIdentifier;
            private IdentifiableObject _emptyObjectIdentifier;
16
17
            private IdentifiableObject _objectIdentifierNoStuId;
18
19
            [SetUp]
20
            public void SetUp()
21
                _objectIdentifier = new IdentifiableObject(new string[]
22
                  { "104772183", "Khoi Nguyen", "Pham" });
                _emptyObjectIdentifier = new IdentifiableObject(new string[] >
23
                   { }):
                _objectIdentifierNoStuId = new IdentifiableObject(new string >
24
                  [] { "1111", "Khoi Nguyen", "Pham" });
25
            }
26
27
            [TestCase]
            public void TestAreYou()
28
29
30
                Assert.IsTrue(_objectIdentifier.AreYou("104772183"));
                Assert.IsTrue(_objectIdentifier.AreYou("Khoi Nguyen"));
31
32
33
            [TestCase]
34
35
            public void TestNotAreYou()
36
            {
37
                Assert.IsFalse(_objectIdentifier.AreYou("nonexistent
                  identifier"));
            }
38
39
40
41
42
            [TestCase]
            public void TestFirstId()
43
44
            {
                Assert.AreEqual("104772183", _objectIdentifier.FirstId);
45
            }
46
47
48
            [TestCase]
            public void TestFirstIdWithNoId()
49
```

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                                                                                2
50
                Assert.AreEqual("", _emptyObjectIdentifier.FirstId);
51
            }
52
53
            [TestCase]
54
55
            public void TestAddId()
                _objectIdentifier.AddIdentifier("Nevan");
57
                Assert.IsTrue(_objectIdentifier.AreYou("Nevan"));
58
59
            }
60
            [TestCase]
61
62
            public void TestCaseSensitivity()
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
73
                string correctPin = "2183";
74
                string expectedFirstId = "7";
75
76
77
                _objectIdentifierNoStuId.PrivilegeEscalation(correctPin);
78
                // Assert
79
80
                Assert.AreEqual(expectedFirstId,
                                                                                P
                  _objectIdentifierNoStuId.FirstId);
81
            }
       }
82
83
84
85
86
```

87 }