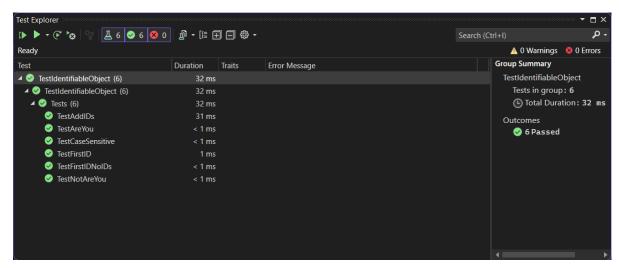
## 2.4P - Case Study Iteration 1 - Identifiable Object

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## Tests passing:



```
1 using System;
2 using System.Collections.Generic;
 3 using System.Linq;
 4 using System.Text;
 5 using System.Threading.Tasks;
 7 namespace SwinAdventure
 8 {
9
        public class IdentifiableObject
10
            private List<string> _identifiers;
11
12
13
            public string FirstID
14
            {
15
                get
16
                {
                    if (_identifiers.Count > 0)
17
18
19
                        return _identifiers[0];
                    }
20
                    else
21
22
                    ş
23
                        return "";
24
                    }
25
                }
26
            }
27
28
            public IdentifiableObject(string[] idents)
29
                _identifiers = new List<string>();
30
                for (int i = 0; i < idents.Length; i++)</pre>
31
32
                {
33
                    _identifiers.Add(idents[i].ToLower());
34
                }
            }
35
36
37
            public bool AreYou(string id)
38
39
                bool result = false;
40
41
                foreach (string ident in _identifiers)
42
                    if (ident == id.ToLower())
43
44
45
                        result = true;
46
                        break;
47
                    }
                }
48
49
```

```
\dotsr 2\COS20007\2.4P\SwinAdventure\IdentifiableObject.cs
```

```
50
               return result;
           }
51
52
           public void AddIdentifier(string id)
53
54
               _identifiers.Add(id.ToLower());
55
56
           }
       }
57
58 }
59
```

2

```
 ... versity \verb|\Year 2\COS20007\2.4P\SwinAdventure\Program.cs | \\
```

```
1
```

```
1 namespace SwinAdventure
2 {
3
       internal class Program
 4
       {
           static void Main(string[] args)
 5
 6
7
               IdentifiableObject id = new IdentifiableObject(new string[]
                 { "id1", "id2" }); // Example of Identifiable Object
 8
           }
9
       }
10 }
11
```

```
\dotsr 2\COS20007\2.4P\TestIdentifiableObject\UnitTest1.cs
```

```
1
```

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

```
...r 2\COS20007\2.4P\TestIdentifiableObject\UnitTest1.cs
```

```
-
```

```
IdentifiableObject myIdents = new IdentifiableObject(new string >
                  [] { "fred", "bob" });
48
                string firstID = myIdents.FirstID;
49
                Assert.That(firstID, Is.EqualTo("fred"));
50
            }
51
52
            [Test]
53
54
            public void TestFirstIDNoIDs()
55
                IdentifiableObject myIdents = new IdentifiableObject(new string >
57
                  [] {});
58
                string firstID = myIdents.FirstID;
59
60
                Assert.That(firstID, Is.EqualTo(""));
            }
61
62
            [Test]
63
64
            public void TestAddIDs()
65
66
                IdentifiableObject myIdents = new IdentifiableObject(new string >
                  [] { "fred", "bob" });
                myIdents.AddIdentifier("wilma");
68
69
                bool fred = myIdents.AreYou("fred");
70
71
                Assert.That(fred, Is.EqualTo(true));
                bool bob = myIdents.AreYou("bob");
72
                Assert.That(bob, Is.EqualTo(true));
73
                bool wilma = myIdents.AreYou("wilma");
74
                Assert.That(wilma, Is.EqualTo(true));
75
76
            }
77
       }
78 }
```