Swinburne University of Technology

Object Oriented Programming (2022 S1)

Doubtfire Submission

Task 2.3P: Case Study Iteration 1 - Identifiable Object

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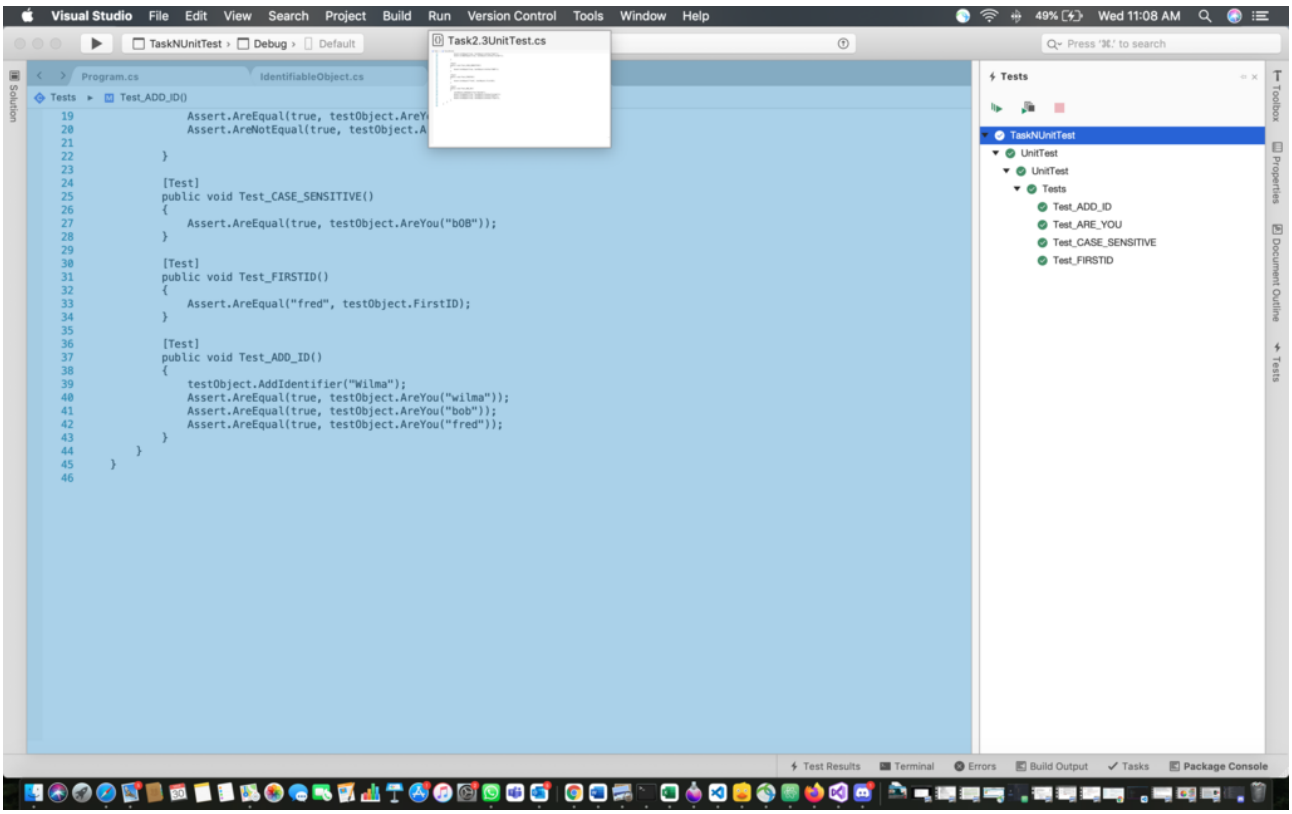
```
using System;
using System.Collections.Generic;
namespace TaskNUnitTest
{
    public class IdentifiableObject
    {
        private List<string> _identifiers = new List<string>();

        public IdentifiableObject(string [] idents)
        {
            foreach (string id in idents)
            {
                _identifiers.Add(id.ToLower());
            }
        }

        //private List<string> _identifiers= new List<string>();




        public bool AreYou(string id)
        {
            return _identifiers.Contains(id.ToLower());
        }

        public string FirstID
        {
            get
            {
                return _identifiers[0];
            }
        }

        public void AddIdentifier(string id)
        {
            //id = id.ToLower();
            _identifiers.Add(id.ToLower());
        }


    }

}
```

```
using NUnit.Framework;
using TaskNUnitTest;
namespace UnitTest
{
    public class Tests
    {
        private IdentifiableObject testObject;

        [SetUp]
        public void Setup()
        {
            string[] array = new string[] { "fred", "bob" };
            testObject = new IdentifiableObject (array);
        }

        [Test]
        public void Test_ARE_YOU()
        {
            Assert.AreEqual(true, testObject.AreYou("bob"));
            Assert.AreNotEqual(true, testObject.AreYou("wilma"));

        }

        [Test]
        public void Test_CASE_SENSITIVE()
        {
            Assert.AreEqual(true, testObject.AreYou("bOB"));
        }

        [Test]
        public void Test_FIRSTID()
        {
            Assert.AreEqual("fred", testObject.FirstID);
        }

        [Test]
        public void Test_ADD_ID()
        {
            testObject.AddIdentifier("Wilma");
            Assert.AreEqual(true, testObject.AreYou("wilma"));
            Assert.AreEqual(true, testObject.AreYou("bob"));
            Assert.AreEqual(true, testObject.AreYou("fred"));
        }
    }
}
```


Visual Studio File Edit View Search Project Build Run Version Control Tools Window Help
Wed 11:08 AM
TaskNUnitTest › Debug › Default
Task2.3UnitTest.cs
Program.cs
IdentifiableObject.cs
Tests ▸ Test_ADD_ID()
Assert.AreEqual(true, testObject.AreYou("bOB"));
Assert.AreEqual("fred", testObject.FirstID);
testObject.AddIdentifier("Wilma");
Assert.AreEqual(true, testObject.AreYou("wilma"));
Assert.AreEqual(true, testObject.AreYou("bob"));
Assert.AreEqual(true, testObject.AreYou("fred"));
Tests
TaskNUnitTest
UnitTest
UnitTest
Tests
Test_ADD_ID
Test_ARE_YOU
Test_CASE_SENSITIVE
Test_FIRSTID
Test Results
Terminal
Errors
Build Output
Tasks
Package Console