Pass Task 3+7 – Spells (School of magic program)

Related Learning Outcomes

ULO1 – Explain the OO Principles

The exercise demonstrated the use of enumerations

ULO2 – Use OO Language and Library

The exercise demonstrated the syntax for creating and using enumerations.

ULO3 – Design, Develop and Test using an IDE

This exercise demonstrated how to create new enumeration files with Xamarin studio. It also provides practice for unit testing using Xamarin Studio.
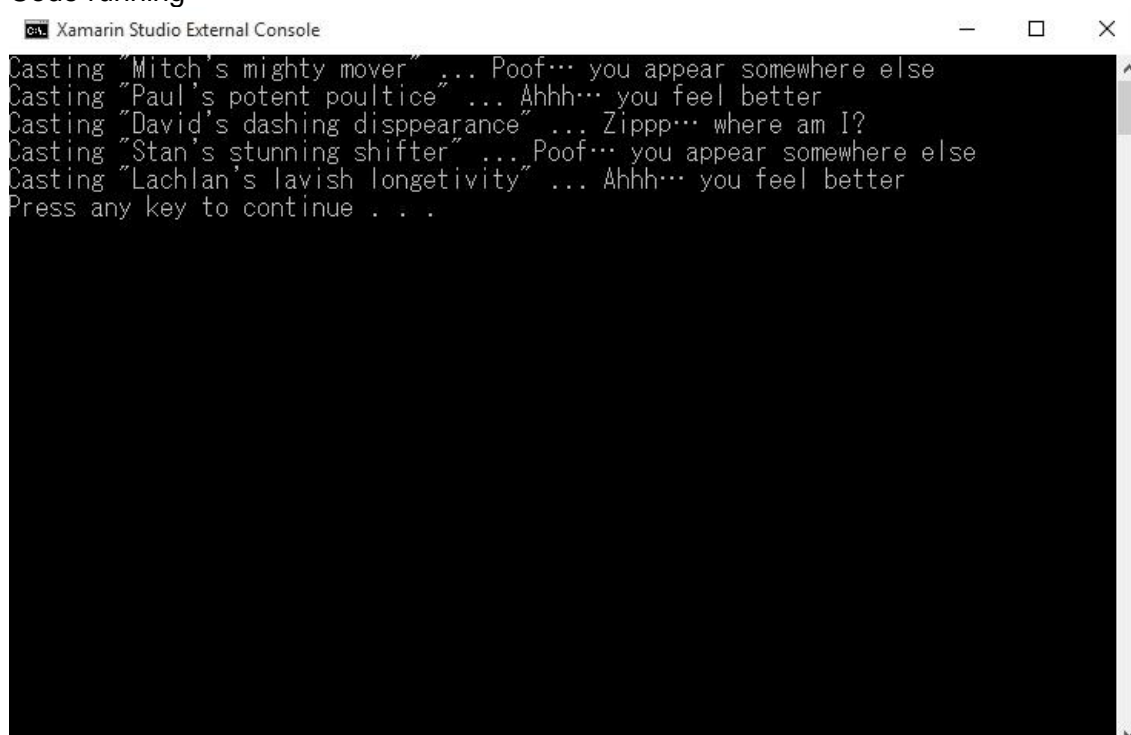
ULO4 – Communicate using UML Diagrams

This exercise introduced a new addition to the UML diagram for illustrating enumerations.

ULO5 – Describe Elements of Good OO Design

Screenshots

Code running

Use of IDE for testing:

Pass3-Spells - SpellTest.cs - Xamarin Studio

File   Edit   View   Search   Project   Build   Run   Version Control   Tools   Window   Help

Debug   Default   Build successful.   Press 'Control+,' to search

Solution
▼ 🖳 Pass3-Spells
  ▼ 📦 Pass3-Spells
    ▶ 📁 References
    ▶ 📁 Packages
    ▶ 📁 Properties
      📄 packages.config
      📄 Program.cs
      📄 Spell.cs
      📄 SpellKind.cs
      📄 SpellTest.cs

Program.cs   SpellKind.cs   Spell.cs   SpellTest.cs

SpellTest ▸ NameChangeTest ()

```
30              Assert.IsTrue (spell.Cast () == "Zippp… where am I?");
31          }
32
33          [Test()]
34          public void NameChangeTest ()
35          {
36              Spell spell = new Spell ("Teleport", SpellKind.Teleport);
37              Assert.IsTrue (spell.Name == "Teleport");
38              spell.Name = "Warp in";
39              Assert.IsFalse (spell.Name == "Teleport");
40              if (spell.Name != "Teleport")
41              {
42                  Assert.IsTrue (spell.Name == "Warp in");
43              }
44          }
45      }
46 }
47
48
```

☑ Test Results   Errors   Tasks   F# Interactive   Application Output   Package Console

Successful Tests   Inconclusive Tests   Failed Tests   Ignored Tests   Output   Rerun Tests

ⓘ Test results for **Pass3-Spells** configuration **Debug|x86**
● Pass3-Spells.Pass3-Spells.Pass3Spells.SpellTest.NameChangeTest
● Pass3-Spells.Pass3-Spells.Pass3Spells.SpellTest.TestHeal
● Pass3-Spells.Pass3-Spells.Pass3Spells.SpellTest.TestInvisibility
● Pass3-Spells.Pass3-Spells.Pass3Spells.SpellTest.TestTeleport

Passed: 4 **Failed**: 0 **Errors**: 0 **Inconclusive**: 0 **Invalid**: 0 **Ignored**: 0 **Skipped**: 0 **Time**: 00:00:00.0090000