1.NUnit-HandsOn

*Code:*

using NUnit.Framework;

using CalcLibrary;

using System;

namespace CalcLibrary.Tests

{

[TestFixture]

public class CalculatorTests

{

private SimpleCalculator calculator;

[SetUp]

public void Setup()

{

calculator = new SimpleCalculator();

}

[Test]

public void TestAddition()

{

double result = calculator.Addition(5, 3);

Assert.That(result, Is.EqualTo(8));

}

[Test]

public void TestSubtraction()

{

double result = calculator.Subtraction(10, 4);

Assert.That(result, Is.EqualTo(6));

}

[Test]

public void TestMultiplication()

{

double result = calculator.Multiplication(6, 7);

Assert.That(result, Is.EqualTo(42));

}

[Test]

public void TestDivision()

{

double result = calculator.Division(10, 2);

Assert.That(result, Is.EqualTo(5));

}

[Test]

public void TestDivisionByZero()

{

var ex = Assert.Throws<ArgumentException>(() => calculator.Division(5, 0));

Assert.That(ex.Message, Is.EqualTo("Second Parameter Can't be Zero"));

}

[Test]

public void TestAllClear()

{

calculator.Addition(5, 5);

calculator.AllClear();

Assert.That(calculator.GetResult, Is.EqualTo(0));

}

[Test]

public void TestGetResult()

{

calculator.Subtraction(10, 4);

Assert.That(calculator.GetResult, Is.EqualTo(6));

}

}

}

Output:

