**Test-Fixture & Test**

CalculatorTest.cs :

using NUnit.Framework;

using CalcLibrary;

namespace CalcLibraryTest

{

[TestFixture]

public class CalculatorTest

{

private SimpleCalculator \_calc;

[SetUp]

public void Setup()

{

\_calc = new SimpleCalculator();

TestContext.WriteLine("Setup completed.");

}

[TearDown]

public void Cleanup()

{

TestContext.WriteLine("Test completed.");

}

[Test]

[TestCase(10, 20, 30)]

[TestCase(-5, 5, 0)]

[TestCase(2.5, 2.5, 5)]

public void Addition\_ChecksExpectedResults(double a, double b, double expected)

{

double result = \_calc.Addition(a, b);

Assert.That(result, Is.EqualTo(expected), $"Addition failed for inputs {a} and {b}");

}

}

}

Output:

