**Week 2**

Exercise 4: Arrange-Act-Assert (AAA) Pattern, Test Fixtures, Setup and

Teardown Methods in JUnit

**Code:**

**package** com.example.calculator;

**import** **static** org.junit.Assert.\*;

**import** org.junit.Before;

**import** org.junit.After;

**import** org.junit.Test;

**public** **class** CalculatorTest {

Calculator calc;

@Before

**public** **void** setUp() {

// Arrange

calc = **new** Calculator();

}

@After

**public** **void** tearDown() {

calc = **null**;

}

@Test

**public** **void** testAdd() {

// Act

**int** result = calc.add(2, 3);

// Assert

*assertEquals*(5, result);

}

@Test

**public** **void** testMultiply() {

//Act

**int** result = calc.multiply(2, 3);

//Assert

*assertEquals*(6, result);

}

@Test

**public** **void** testAddconsole() {

//Act

**int** resultadd = calc.add(2, 3);

**int** resultmultiply = calc.multiply(2, 3);

//Assert

*assertEquals*(5, resultadd);

*assertEquals*(6, resultmultiply);

//Display

System.***out***.println("Addition Result: " + resultadd);

System.***out***.println("Multiplication Result: " + resultmultiply);

}

}

