**WEEK-2**

**Exercise 4: Arrange-Act-Assert (AAA) Pattern, Test Fixtures, Setup and Teardown Methods in Junit**

You need to organize your tests using the Arrange-Act-Assert (AAA) pattern and use setup and teardown methods.

1. Write tests using the AAA pattern.

2. Use @Before and @After annotations for setup and teardown methods.

Calculatortest.java

package com.example.junit\_demo;

import org.junit.After;

import org.junit.Before;

import org.junit.Test;

import static org.junit.Assert.\*;

public class Calculatortest {

private Calculator calculator;

*@Before*

public void setUp() {

calculator = new Calculator();

System.***out***.println("Setting up ");

}

*@After*

public void tearDown() {

calculator = null;

System.***out***.println("Tearing down");

}

*@Test*

public void testAddition() {

int result = calculator.add(25, 8);

*assertEquals*(33, result);

}

*@Test*

public void testSubtraction() {

int result = calculator.subtract(59, 8);

*assertEquals*(51, result);

}

}

Calculator.java

package com.example.junit\_demo;

public class Calculator {

public int add(int a, int b) {

return a + b;

}

public int subtract(int a, int b) {

return a - b;

}

}

OUTPUT

