**SUPERSET ID: 6408269**

**TOPIC : TDD USING Junit5 AND MOCKITO**

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

**//**Calculator class

public class Calculator {

public int add(int a, int b) {

return a + b;

}

public int subtract(int a, int b) {

return a - b;

}

}

//CalculatorTest class

import org.junit.jupiter.api.\*;

import static org.junit.jupiter.api.Assertions.\*;

public class CalculatorTest {

private Calculator calculator;

*@BeforeEach*

void setUp() {

calculator = new Calculator();

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

}

*@AfterEach*

void tearDown() {

System.***out***.println("Cleaning up after test");

}

*@Test*

void testAddition() {

int a = 5;

int b = 7;

int result = calculator.add(a, b);

*assertEquals*(12, result);

}

*@Test*

void testSubtraction() {

int a = 10;

int b = 4;

int result = calculator.subtract(a, b);

*assertEquals*(6, result);

}

}

**OUTPUT SCREENSHOT :**

