**Calculator.java**

package org.example;

public class Calculator {

public int add(int a, int b) {

return a + b;

}

public int multiply(int a, int b) {

return a \* b;

}

}

**CalculatorTest.java**

import org.junit.After;

import org.junit.Before;

import org.junit.Test;

import static org.junit.Assert.\*;

public class CalculatorTest {

private Calculator calculator;

// Setup - runs before each test

@Before

public void setUp() {

calculator = new Calculator();

System.out.println("Setup complete");

}

// Teardown - runs after each test

@After

public void tearDown() {

calculator = null;

System.out.println("Teardown complete");

}

@Test

public void testAddition() {

// Arrange

int a = 10;

int b = 20;

// Act

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

// Assert

assertEquals(30, result);

}

@Test

public void testMultiplication() {

// Arrange

int a = 5;

int b = 6;

// Act

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

// Assert

assertEquals(30, result);

}

}