**Calculator.java**

public class Calculator {

public int multiply(int a, int b) {

return a \* b;

}

public void reset() {

System.out.println(“Memory Resetted”);

}

}

***CalculatorTest.java***

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

import static org.junit.jupiter.api.Assertions.assertEquals;

public class CalculatorTest {

private Calculator calculator;

void setUp() {

calculator = new Calculator();

System.out.println("Setup before test");

}

void tearDown() {

calculator.reset();

System.out.println("Teardown after test");

}

void testMultiplyPositiveNumbers() {

int result = calculator.multiply(4, 5);

assertEquals(20, result, "Multiplication should return 20");

}

void testMultiplyByZero() {

int result = calculator.multiply(8, 0);

assertEquals(0, result, "Multiplying by zero should return zero");

}

}

**Output:**

Setup before testMemory Resetted

Teardown after test

Setup before test  
Memory Resetted

Teardown after test

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T E S T S

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Running CalculatorTest

Tests run: 2, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.014 sec