**1.Setting Up JUnit in a Java Project**

**Step 1: Create a New Java Project**

Using IntelliJ IDEA:

* Click on File > New > Project.
* Select Java and click Next.
* Name your project (e.g., JUnitSetupDemo) and click Finish.

**Step 2: Add JUnit Dependency**

**Open pom.xml and add the following inside the <dependencies> section:**

**xml**

<dependencies>

<!-- JUnit 4 Dependency -->

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.13.2</version>

<scope>test</scope>

</dependency>

</dependencies>

**Step 3: Create a New Test Class**

**Create Calculator.java in src/main/java:**

package org.example;

public class Calculator {

public int add(int a, int b) {

return a + b;

}

}

**Create a test class CalculatorTest.java in src/test/java:**

package org.example;

import org.junit.Test;

import static org.junit.Assert.\*;

public class CalculatorTest {

@Test

public void testAdd() {

Calculator calc = new Calculator();

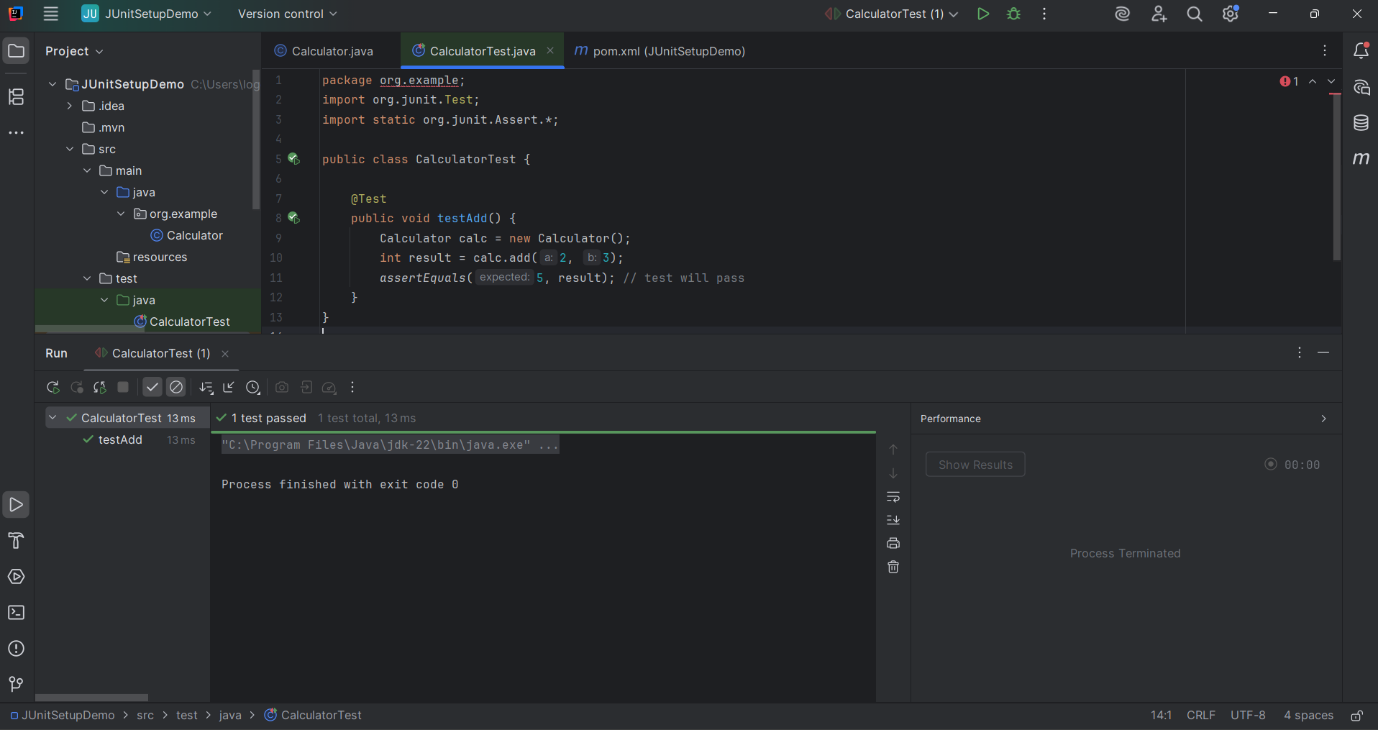
int result = calc.add(2, 3);

assertEquals(5, result);

}

}

**Right-click on the test file and choose Run CalculatorTest.**

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