## ****Exercise 1: Setting Up JUnit****

### ****Scenario:****

Set up JUnit in your Java project to start writing unit test

### ****Step 1: Create a new Java project****

**Tool:** IntelliJ IDEA or Eclipse

**Output:**

MyJUnitProject/

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├── src/

│ └── main/

│ └── java/

│ └── com.example/

│

└── pom.xml

### ****Step 2: Add JUnit dependency to**** pom.xml

Paste the following code inside the <dependencies> section:

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>4.13.2</version>

<scope>test</scope>

</dependency>

**Output:**

External Libraries > Maven: junit:junit:4.13.2

### ****Step 3: Create a new test class****

Navigate to src/test/java and create a new class:

import org.junit.Test;

import static org.junit.Assert.assertEquals;

public class CalculatorTest {

@Test

public void testAddition() {

int result = 2 + 3;

assertEquals(5, result);

}

}

**Output:**  
When you run the test class:

In IntelliJ:

Tests passed: 1 of 1 test – CalculatorTest

In console:

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Running com.example.CalculatorTest

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

BUILD SUCCESS