

Exercise 1: Setting Up JUnit

Pop.xml

```
https://maven.apache.org/xsd/maven-4.0.0.xsd (xsi:schemaLocation)
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
2   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
4   <modelVersion>4.0.0</modelVersion>
5
6   <groupId>org.example</groupId>
7   <artifactId>JUnitDemo</artifactId>
8   <version>1.0-SNAPSHOT</version>
9
10  <properties>
11    <maven.compiler.source>17</maven.compiler.source>
12    <maven.compiler.target>17</maven.compiler.target>
13  </properties>
14
15  <dependencies>
16    <!-- JUnit 4 -->
17    <dependency>
18      <groupId>junit</groupId>
19      <artifactId>junit</artifactId>
20      <version>4.13.2</version>
21      <scope>test</scope>
22    </dependency>
23  </dependencies>
24 </project>
25
```

Caluculator.java

```
1 package org.example;
2
3 public class Calculator {
4     public int add(int a, int b) {
5         return a + b;
6     }
7 }
```

CaluculatorTest.java

```
package org.example;
import static org.junit.Assert.*;
import org.junit.Test;

public class CalculatorTest {

    @Test
    public void testAdd() {
        Calculator calc = new Calculator();
        int result = calc.add(2, 3);
        assertEquals(5, result);
    }
}
```

Output:

Finished after 0.03 seconds

Runs: 1/1

Errors: 0

Failures: 0

> org.example.CalculatorTest [Runner: JUnit 4] (0.000 s)

