Exercise 3: Assertions in Junit

pom.xml:

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>com.Example</groupId>

<artifactId>Demo</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<dependency>

<groupId>org.junit.jupiter</groupId>

<artifactId>junit-jupiter-api</artifactId>

<version>5.10.0</version>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.junit.jupiter</groupId>

<artifactId>junit-jupiter-engine</artifactId>

<version>5.10.0</version>

<scope>test</scope>

</dependency>

</dependencies>

</project>

MathUtil.java

**public** **class** MathUtil {

**public** **int** add(**int** a, **int** b) {

**return** a + b;

}

**public** **boolean** isPositive(**int** num) {

**return** num > 0;

}

**public** String getNullValue() {

**return** **null**;

}

}

MathUtilTest.java

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

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

**public** **class** MathUtilTest {

@Test

**public** **void** testAddition() {

MathUtil util = **new** MathUtil();

*assertEquals*(5, util.add(2, 3));

}

@Test

**public** **void** testIsPositive() {

MathUtil util = **new** MathUtil();

*assertTrue*(util.isPositive(5));

*assertFalse*(util.isPositive(-2));

}

@Test

**public** **void** testNullChecks() {

MathUtil util = **new** MathUtil();

*assertNull*(util.getNullValue());

*assertNotNull*(**new** Object());

}

}

Output:

