**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 http://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>UsingJUnit</groupId>

<artifactId>UsingJUnit</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<dependency>

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

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

<version>5.4.2</version>

</dependency>

<dependency>

<groupId>org.junit.platform</groupId>

<artifactId>junit-platform-launcher</artifactId>

<version>1.2.0</version>

</dependency>

</dependencies>

</project>

**class Calculator for testing purposes**

**package** com.ecommerce.tests;

**public** **class** Calculator

{

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

**return** a + b;

}

}

**class NestedCases**

**package** com.ecommerce.tests;

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

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

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

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

**import** org.junit.platform.runner.JUnitPlatform;

**import** org.junit.runner.RunWith;

@DisplayName("JUnit 5 Nested Example")

@RunWith(JUnitPlatform.**class**)

**public** **class** NestedCases {

@BeforeAll

**static** **void** beforeAll() {

System.***out***.println("Before all test methods");

}

@BeforeEach

**void** beforeEach() {

System.***out***.println("Before each test method");

}

@AfterEach

**void** afterEach() {

System.***out***.println("After each test method");

}

@AfterAll

**static** **void** afterAll() {

System.***out***.println("After all test methods");

}

@Nested

@DisplayName("Tests for the method A")

**class** A {

@BeforeEach

**void** beforeEach() {

System.***out***.println("Before each test method of the A class");

}

@AfterEach

**void** afterEach() {

System.***out***.println("After each test method of the A class");

}

@Test

@DisplayName("Example test for method A")

**void** sampleTestForMethodA() {

System.***out***.println("Example test for method A");

}

@Nested

@DisplayName("When X is true")

**class** WhenX {

@BeforeEach

**void** beforeEach() {

System.***out***.println("Before each test method of the WhenX class");

}

@AfterEach

**void** afterEach() {

System.***out***.println("After each test method of the WhenX class");

}

@Test

@DisplayName("Example test for method A when X is true")

**void** sampleTestForMethodAWhenX() {

System.***out***.println("Example test for method A when X is true");

}

}

}

}

**class RepeatedTests**

**package** com.ecommerce.tests;

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

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

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

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

**import** org.junit.platform.runner.JUnitPlatform;

**import** org.junit.runner.RunWith;

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

@DisplayName("JUnit 5 Repeated Tests Example")

@RunWith(JUnitPlatform.**class**)

**public** **class** RepeatedTests {

@BeforeAll

**public** **static** **void** init(){

System.***out***.println("Before All init() method called");

}

@BeforeEach

**public** **void** initEach(){

System.***out***.println("Before Each initEach() method called");

}

@Test

@DisplayName("Add operation test")

@RepeatedTest(5)

**void** addNumber(TestInfo testInfo) {

Calculator calculator = **new** Calculator();

Assertions.assertEquals(2, calculator.add(1, 1), "1 + 1 should equal 2");

System.***out***.println("===addNumber testcase executed===");

}

@AfterEach

**public** **void** cleanUpEach(){

System.***out***.println("After Each cleanUpEach() method called");

}

@AfterAll

**public** **static** **void** cleanUp(){

System.***out***.println("After All cleanUp() method called");

}

}