

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>
```

Calculator.java

```
package com.ecommerce.tests;
```

```
public class Calculator
```

```
{
```

```
public int add(int a, int b) {  
    return a + b;  
}  
}
```

NestedCases.java

```
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");
    }
}
}
```