

Utilisation de JUnit

1. Créer un projet Maven : Group ID : tests.projets.agiles , Artefact ID : exemple 1
2. Ajouter la dépendance :

`<dependency>`

```
<groupId>org.junit.jupiter</groupId>
<artifactId>junit-jupiter-engine</artifactId>
<version>5.5.2</version>
```

`</dependency>`

3. Créer la classe Calcul

```
package exemple1.calculs;

public class Calcul {
    public int min(int a, int b) {
        if (a < b)
            return a;
        return b;
    }
}
```

4. Ajouter la classe de Tests en cliquant avec le bouton droit sur la classe Calcul , puis « New JUnit Test Case »

New JUnit Test Case

JUnit Test Case

Select the name of the new JUnit test case. Specify the class under test to select methods to be tested on the next page.

New JUnit 3 test New JUnit 4 test New JUnit Jupiter test

Source folder:

Package:

Name:

Superclass:

Which method stubs would you like to create?

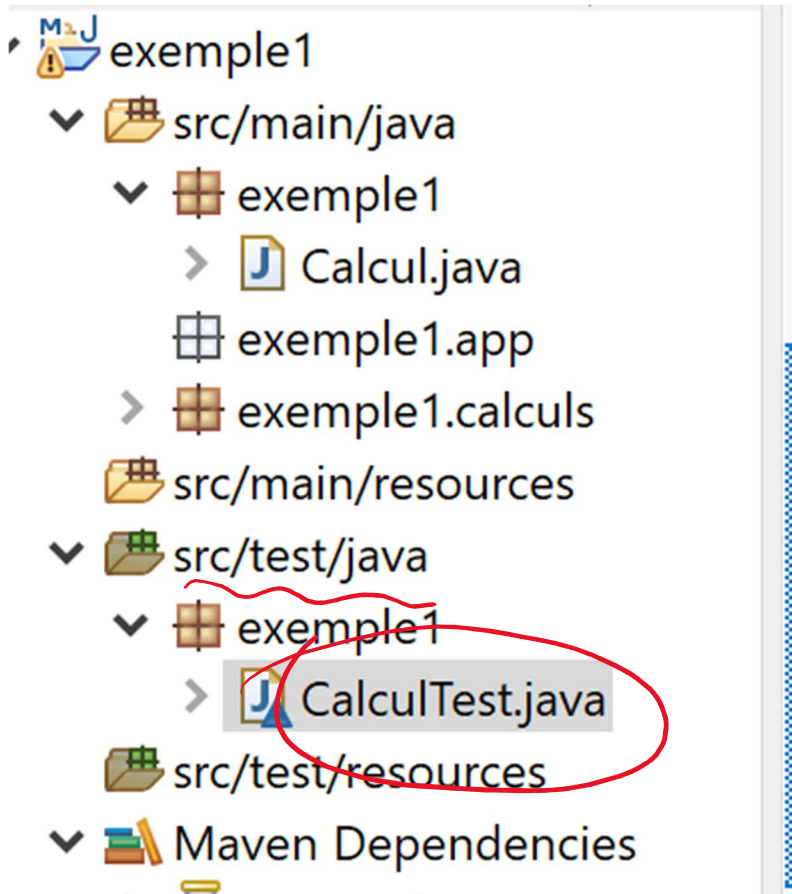
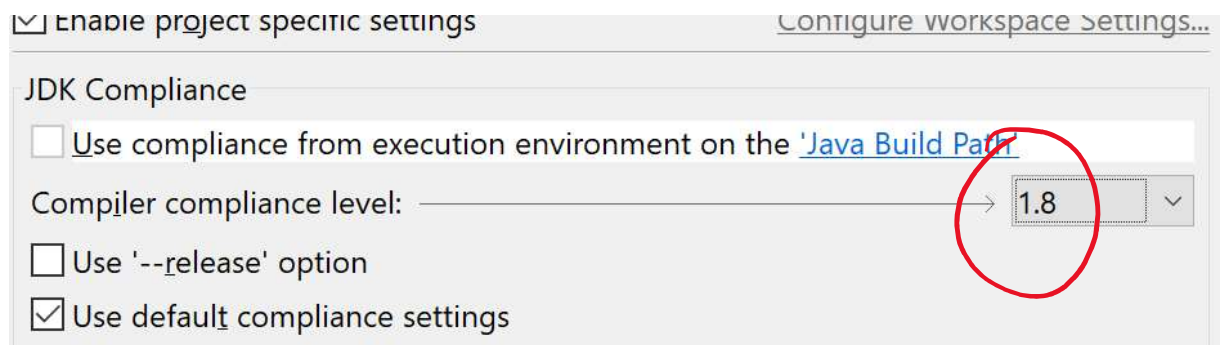
setUpBeforeClass() tearDownAfterClass()
 setUp() tearDown()
 constructor

Do you want to add comments? (Configure templates and default value [here](#))

Generate comments

Class under test:

⚠ JUnit 5 requires a Java 8 project. [Configure](#) project compliance and the project build path.



Ecrire la méthode de test

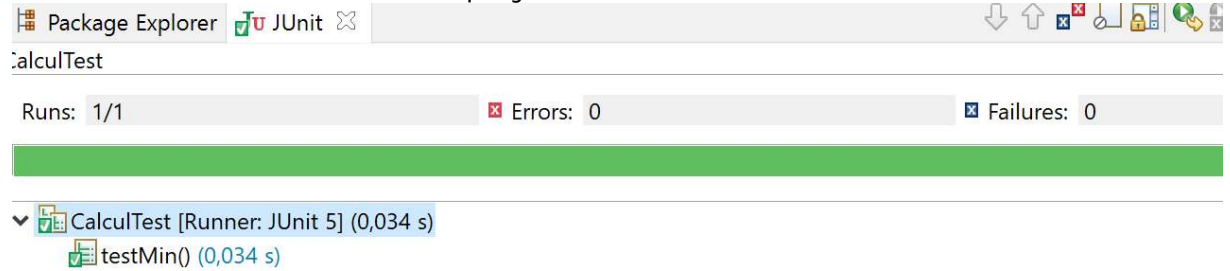
```
package exemple1;

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

import org.junit.jupiter.api.Test;

class CalculTest {
    @Test
    void testMin() {
        Calcul cl = new Calcul();
        int resultat = cl.min(3, 5);
        assertEquals(3, resultat);
    }
}
```

Démarrer le test : Exécuter le projet « Run as / JUnit Test »



The screenshot shows the IDE interface during a test run. At the top, the Package Explorer shows 'JUnit' and 'JUnit 5'. Below it, the 'CalculTest' package is expanded. The 'Runs' section shows '1/1' runs, '0' errors, and '0' failures. A green progress bar indicates a successful run. The test results list shows 'CalculTest [Runner: JUnit 5] (0,034 s)' and 'testMin() (0,034 s)' both with green checkmarks.

```
package exemple1;
```

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

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

```
class CalculTest {  
    @Test  
    void testMin() {  
        Calcul cl = new Calcul();  
        int resultat = cl.min(3, 5);  
        assertEquals(3, resultat, "Le test 1 a échoué");  
    }  
  
    @Test  
    void testMin2() {  
        Calcul cl = new Calcul();  
        int resultat = cl.min(3, 5);  
        assertEquals(5, resultat, "Le test 2 a échoué");  
    }  
}
```