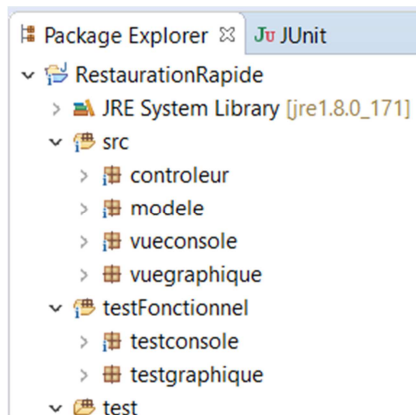


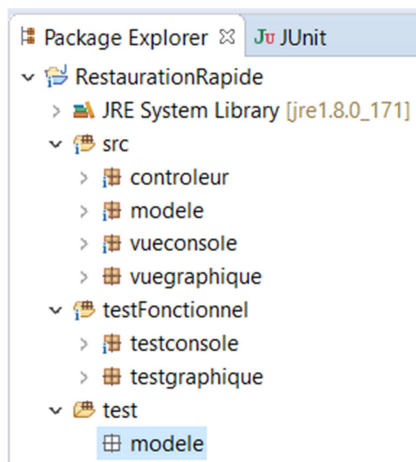
Test Unitaire avec JUnit

Création de l'environnement de test

Créer le dossier de test : click droit sur votre projet burgerResto puis : File / New / Source Folder
Appeler le dossier OBLIGATOIREMENT « test ».

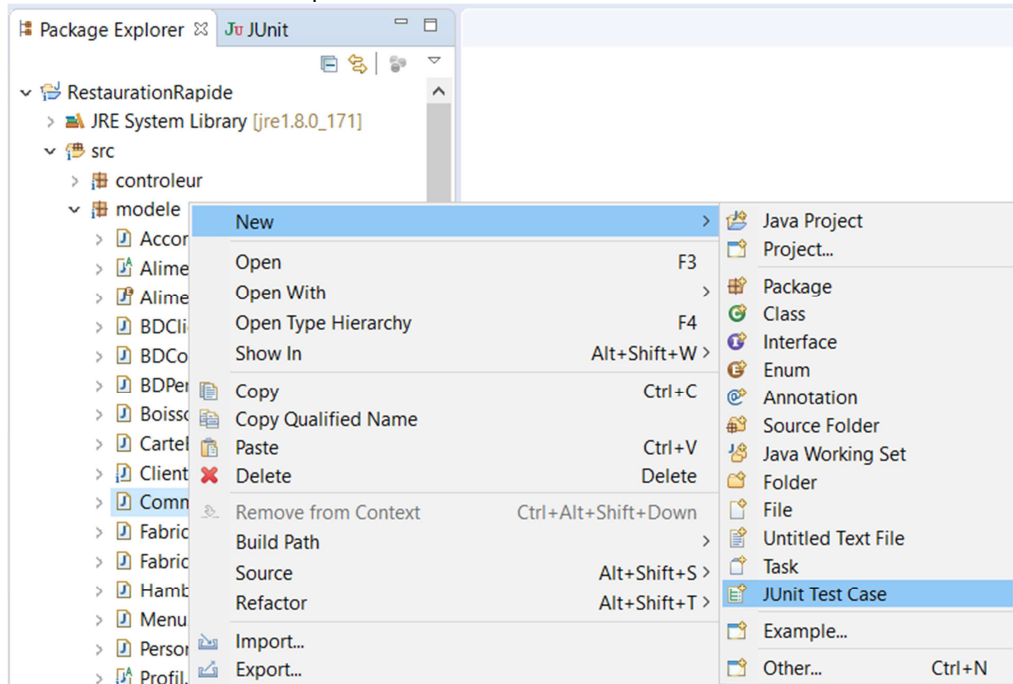


Sous le dossier « test » créer le package « modele ». Attention l'orthographe de manière identique à celui du dossier « src ».



Ecrire les tests d'une classe

Sélectionner la classe sur laquelle vous souhaitez faire les tests.



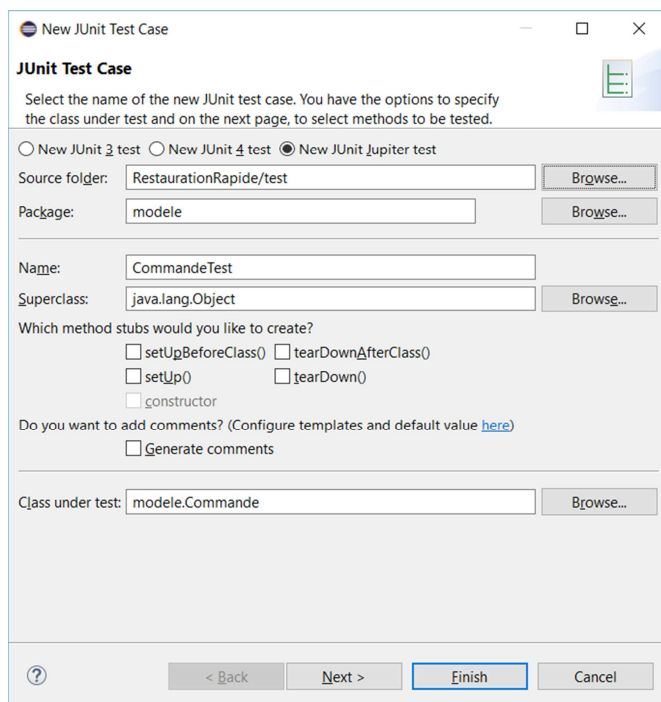
Choisir la version de JUnit pour effectuer les tests.

Modifier le source folder pour celui que vous avez créé « test ».

Sélectionner les méthodes que vous voulez créer parmi :

- setUpBeforeClass()
- setUp()
- tearDownAfterClass()
- setUp()
- tearDown()

Puis valider « Finish ».





Résultat :

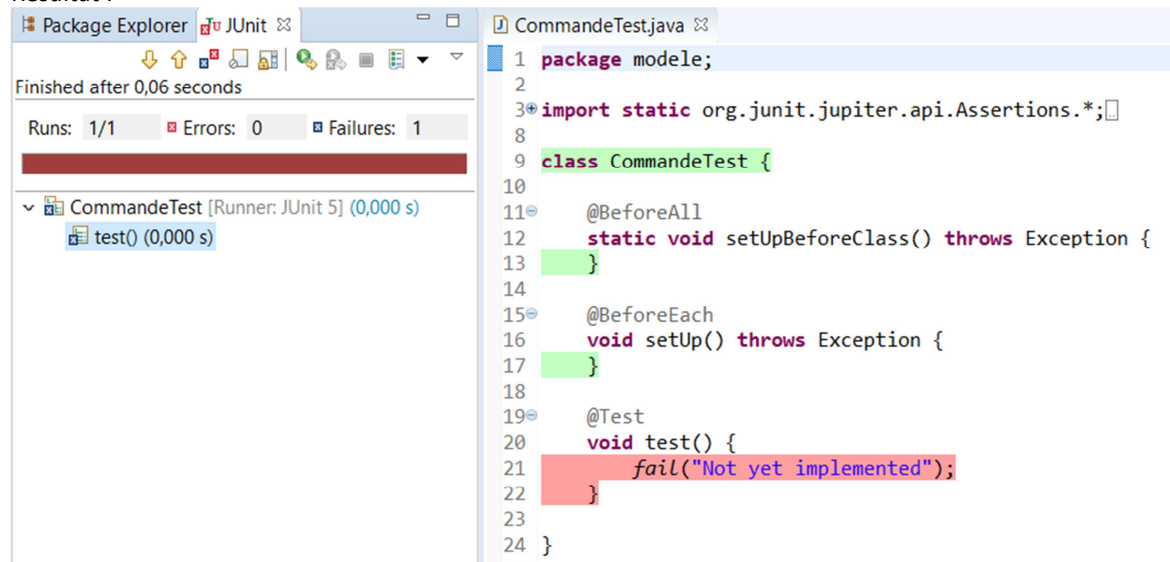


Lancer un test unitaire

Par défaut le test échoue « fail("Not yet implemented") ; ».

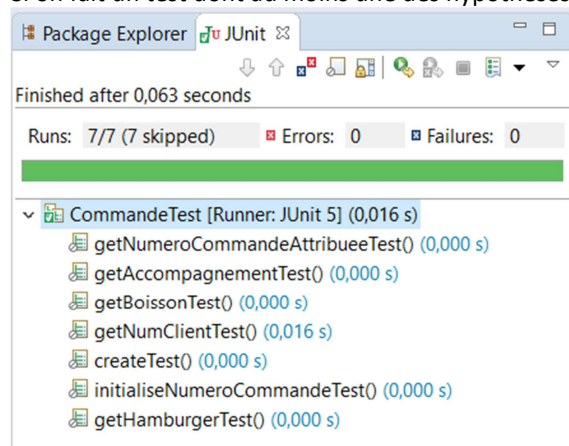
Pour lancer le test utiliser le même bouton run  ou pour vérifier également la couverture de test .

Résultat :



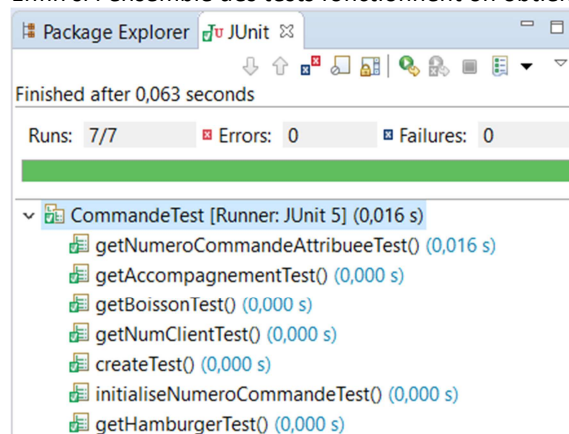
1 test a été exécuté et il a échoué : « Failures: 1 ».

Si on fait un test dont au moins une des hypothèses n'est pas vérifiée on obtient le résultat ci-dessous.



0 test a été effectué et 7 hypothèses ont échoué « (7 skipped) ».

Enfin si l'ensemble des tests fonctionnent on obtient le résultat ci-dessous.



Hypothèse de test : classe Assumptions (JUnit 5)

All Methods	Static Methods	Concrete Methods	
Modifier and Type	Method	Description	
static void	assumeFalse (boolean assumption)	Validate the given assumption.	
static void	assumeFalse (boolean assumption, String message)	Validate the given assumption.	
static void	assumeFalse (boolean assumption, Supplier < String > messageSupplier)	Validate the given assumption.	
static void	assumeFalse (BooleanSupplier assumptionSupplier)	Validate the given assumption.	
static void	assumeFalse (BooleanSupplier assumptionSupplier, String message)	Validate the given assumption.	
static void	assumeFalse (BooleanSupplier assumptionSupplier, Supplier < String > messageSupplier)	Validate the given assumption.	
static void	assumeTrue (boolean assumption)	Validate the given assumption.	
static void	assumeTrue (boolean assumption, String message)	Validate the given assumption.	
static void	assumeTrue (boolean assumption, Supplier < String > messageSupplier)	Validate the given assumption.	
static void	assumeTrue (BooleanSupplier assumptionSupplier)	Validate the given assumption.	
static void	assumeTrue (BooleanSupplier assumptionSupplier, String message)	Validate the given assumption.	
static void	assumeTrue (BooleanSupplier assumptionSupplier, Supplier < String > messageSupplier)	Validate the given assumption.	
static void	assumingThat (boolean assumption, Executable executable)	Execute the supplied Executable , but only if the supplied assumption is valid.	
static void	assumingThat (BooleanSupplier assumptionSupplier, Executable executable)	Execute the supplied Executable , but only if the supplied assumption is valid.	

Assertion : classe Assertions (JUnit 5)

(sans les surcharges)

Modifier and Type	Method and Description	JUnit 5.0.2 API
static void	assertAll (String heading, Executable... executables) Asserts that all supplied executables do not throw exceptions.	
static void	assertAll (String heading, Stream<Executable> executables) Asserts that all supplied executables do not throw exceptions.	
static void	assertArrayEquals (long[] expected, long[] actual, String message) Asserts that expected and actual long arrays are equal.	
static void	assertEquals (Object expected, Object actual, String message) Asserts that expected and actual are equal.	
static void	assertFalse (boolean condition, String message) Asserts that the supplied condition is not true.	
static void	assertIterableEquals (Iterable<?> expected, Iterable<?> actual, String message) Asserts that expected and actual iterables are deeply equal.	
static void	assertLinesMatch (List<String> expectedLines, List<String> actualLines) Asserts that expected list of Strings matches actual list.	
static void	assertNotEquals (Object unexpected, Object actual, String message) Asserts that expected and actual are not equal.	
static void	assertNotNull (Object actual, String message) Asserts that actual is not null.	
static void	assertNotSame (Object unexpected, Object actual, String message) Asserts that expected and actual do not refer to the same object.	
static void	assertNull (Object actual, String message) Asserts that actual is null.	
static void	assertSame (Object expected, Object actual, String message) Asserts that expected and actual refer to the same object.	
static <T extends Throwable> T	assertThrows (Class<T> expectedType, Executable executable, String message) Asserts that execution of the supplied executable throws an exception of the expectedType and returns the exception.	
static void	assertTimeout (Duration timeout, Executable executable, String message) Asserts that execution of the supplied executable completes before the given timeout is exceeded.	
static void	assertTrue (boolean condition, String message) Asserts that the supplied condition is true.	
static <V> V	fail (String message, Throwable cause) Fails a test with the given failure message as well as the underlying cause.	