

## Pruebas unitarias

### Función sum

The screenshot shows an IDE with the following components:

- Source Editor:** Displays the code for `CalculadoraFuncionesNGTest.java`. The `testSum()` method is highlighted in red. It includes a JUnit `@Test` annotation, a `tearDownMethod()` that throws an exception, and a test for the `sum` method of `CalculadoraFunciones`. The test sets `a = 3`, `b = 2`, and `exp = 5`, then asserts that `instance.sum(a, b)` equals `exp`.
- Test Results:** A window at the bottom showing the results of the test run. It indicates that all tests passed (100.00%) and that the test passed in 0.008 seconds. The output shows the test suite running the `sum` command line suite.

### Función substraction

The screenshot shows an IDE with the following components:

- Source Editor:** Displays the code for `CalculadoraFuncionesNGTest.java`. The `testSubstraction()` method is highlighted in red. It includes a JUnit `@Test` annotation, a `tearDownMethod()` that throws an exception, and a test for the `substraction` method of `CalculadoraFunciones`. The test sets `a = 5`, `b = 2`, and `expResult = 3`, then asserts that `instance.substraction(a, b)` equals `expResult`.
- Test Results:** A window at the bottom showing the results of the test run. It indicates that all tests passed (100.00%) and that the test passed in 0.004 seconds. The output shows the test suite running the `substraction` command line suite.

## Función multiply

The screenshot shows an IDE with the file `CalculadoraFuncionesNGTest.java` open. The `testMultiply()` method is highlighted in red. The code is as follows:

```
66  
67  
68 /**  
69  * Test of multiply method, of class CalculadoraFunciones.  
70  */  
71 @Test  
72 public void testMultiply() {  
73     System.out.println("multiply");  
74     int a = 5;  
75     int b = 4;  
76     CalculadoraFunciones instance = new CalculadoraFunciones();  
77     int expectedResult = 20;  
78     int result = instance.multiply(a, b);  
79     assertEquals(result, expectedResult);  
80 }  
81  
82 /**  
83  * Test of division method, of class CalculadoraFunciones.  
84  */  
85 @Test  
86 public void testDivision() {  
87     System.out.println("division");  
88     int a = 0;  
89     int b = 0;  
90     CalculadoraFunciones instance = new CalculadoraFunciones();  
91     int expectedResult = 0;  
92     int result = instance.division(a, b);
```

The Test Results window at the bottom shows the following output:

```
Test Results  
Ant suite  
[TestNG] Running:  
Command line suite  
multiply  
=====  
Command line suite  
Total tests run: 1, Failures: 0, Skips: 0  
=====
```

The left sidebar shows the project structure with 'Calcu' selected. The bottom status bar indicates '76:27' and 'INS'.

## Función division

The screenshot shows the same IDE as the previous one, but now the `testDivision()` method is highlighted in red. The code is as follows:

```
67  
68 /**  
69  * Test of multiply method, of class CalculadoraFunciones.  
70  */  
71 @Test  
72 public void testMultiply() {  
73     System.out.println("multiply");  
74     int a = 5;  
75     int b = 4;  
76     CalculadoraFunciones instance = new CalculadoraFunciones();  
77     int expectedResult = 20;  
78     int result = instance.multiply(a, b);  
79     assertEquals(result, expectedResult);  
80 }  
81  
82 /**  
83  * Test of division method, of class CalculadoraFunciones.  
84  */  
85 @Test  
86 public void testDivision() {  
87     System.out.println("division");  
88     int a = 20;  
89     int b = 5;  
90     CalculadoraFunciones instance = new CalculadoraFunciones();  
91     int expectedResult = 4;  
92     int result = instance.division(a, b);  
93     assertEquals(result, expectedResult);
```

The Test Results window at the bottom shows the following output:

```
Test Results  
Ant suite  
[TestNG] Running:  
Command line suite  
division  
=====  
Command line suite  
Total tests run: 1, Failures: 0, Skips: 0  
=====
```

The left sidebar shows the project structure with 'Calcu' selected. The bottom status bar indicates '88:19' and 'INS'.