

Test Cases-JUnit

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The screenshot displays the Apache NetBeans IDE interface. The main editor window shows the source code of the `BasicOperationTest` class. The code includes two test methods: `testAdd()` and `testSubtract()`. The `testAdd()` method tests the `add` method of the `BasicOperation` class, and the `testSubtract()` method tests the `subtract` method. Both methods use `assertEquals` to verify the results.

```
7  /**
8   *
9   * @author Richar Maisincho, DEEE-ESPE
10  */
11  public class BasicOperationTest {
12
13      public BasicOperationTest() {
14      }
15
16      /**
17       * Test of add method, of class BasicOperation.
18       */
19      @Test
20      public void testAdd() {
21          System.out.println("add");
22          float addend1 = 1.2F;
23          float addend2 = 3.2F;
24          BasicOperation instance = new BasicOperation();
25          float expectedResult = 4.4F;
26          float result = instance.add(addend1, addend2);
27          assertEquals(expectedResult, result, 4.4);
28      }
29
30
31      /**
32       * Test of subtract method, of class BasicOperation.
33       */
34      @Test
35      public void testSubtract() {
36          System.out.println("subtract");
37          float minuend = 5.2F;
38          float subtraend = 2.5F;
39          BasicOperation instance = new BasicOperation();
40          float expectedResult = 2.7F;
41          float result = instance.subtract(minuend, subtraend);
42          //Java Method wich is called asserEquals
43          assertEquals(expectedResult, result, 0.1);
44      }
45  }
```

The bottom of the IDE shows the 'Test Results' window. It indicates that both tests passed successfully. The output window shows the following messages:

```
ec.edu.espe.mathoperations.BasicOperationTest
Tests passed: 100,00 %
Both tests passed. (0,197 s)
```

On the right side of the Test Results window, the methods being tested are listed:

```
add
subtract
```