

OOP HW20 Individual Exercise Test Cases

DATE: 10th february 2022

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The image displays two screenshots of the Apache NetBeans IDE, illustrating the development and testing of a Java class named `BasicOperationTest`.

Top Screenshot: The IDE shows the `BasicOperationTest.java` file. The code includes a package declaration, imports, and a class definition with two test methods: `testAdd()` and `testAddSecondTry()`. The `testAdd()` method is currently selected. The Test Results window shows a failure for the `testAdd` method, indicating an assertion error where the expected value was `-0.0177026` but the actual value was `1.9984288`.

Bottom Screenshot: The IDE shows the same `BasicOperationTest.java` file, but the `testAddSecondTry()` method is now selected. The Test Results window shows that all tests passed, with a message: "The test passed. (0.089 s)".

The code in the top screenshot is as follows:

```
15
16 /**
17  * Test of add method, of class BasicOperation.
18  */
19 @Test
20 public void testAdd() {
21     System.out.println("add");
22     double addend1 = 22;
23     double addend2 = 17.9876;
24     BasicOperation instance = new BasicOperation();
25     double expectedResult = -0.0177026;
26     double result = instance.add(addend1, addend2);
27     assertEquals(expectedResult, result, 0.0);
28 }
29
30 public void testAddSecondTry() {
31     System.out.println("add");
32     double addend1 = 0;
```

The code in the bottom screenshot is as follows:

```
1 package ec.edu.espe.mathOperation;
2
3 import org.junit.Test;
4 import static org.junit.Assert.*;
5
6 /**
7  * @author Guitarra Jhon: ESPE
8  */
9 public class BasicOperationTest {
10
11     public BasicOperationTest() {
12     }
13
14     /**
15      * Test of add method, of class BasicOperation.
16      */
17     @Test
18     public void testAdd() {
19         System.out.println("add");
20         double addend1 = 22;
21         double addend2 = 17.9876;
22         BasicOperation instance = new BasicOperation();
23         double expectedResult = 1.9984288;
24         double result = instance.add(addend1, addend2);
```