

Faculty of Computer Science and Engineering
Ho Chi Minh City University of Technology



LAB 2

Môn kiểm thử phần mềm



Testcase cho project

```
import org.junit.Test;
import static org.junit.Assert.*;
public class TriangleTypeTest {
    TriangleTester test = new TriangleTester();
    TriangleType output;
    //Test phương thức delta
    @Test
    public void test_Delta() {
        test.setDelta(0.002);
        double delta = test.getDelta();
        assertEquals(0.002, delta, 1);
    }

    //-----
    //Test tam giác đều không
    @Test
    public void test_EquiTri_1() {
        output = test.kindOfTriangle(10, 10, 10);
        assertTrue(output.isEquilateralTriangle());
    }

    //-----
    //Test đó là tam giác cân không
    @Test
    public void test_IsoTri_1() {
        output = test.kindOfTriangle(1, 4, -10);
        assertFalse(output.isIsoscelesTriangle());
    }
    @Test
    public void test_IsoTri_2() {
        output = test.kindOfTriangle(5, 5, 5);
        assertTrue(output.isIsoscelesTriangle());
    }
    //-----
    //Test đó là tam giác hợp lệ không
    @Test
    public void test_NotTri_1() {
        output = test.kindOfTriangle(2, 5, 10, 0.02);
        assertFalse(output.isRightTriangle());
    }
    @Test
    public void test_NotTri_2() {
        output = test.kindOfTriangle(11, 3, 10, 0.02);
        assertFalse(output.isRightTriangle());
    }
    @Test
    public void test_NotTri_3() {
        output = test.kindOfTriangle(-1, 15, 9, 0.02);
        assertFalse(output.isRightTriangle());
    }
    //-----
    //Test tam giác phải không?
    @Test
    public void test_RighTri_1() {
        output = test.kindOfTriangle(3, 4, 5);
        assertTrue(output.isRightTriangle());
    }
    @Test
    public void test_RighTri_2() {
        output = test.kindOfTriangle(3, 5, 4);
        assertTrue(output.isRightTriangle());
    }
}
```



```
@Test
public void test_RightTri_3() {
    output = test.kindOfTriangle(5, 4, 3);
    assertTrue(output.isRightTriangle());
}
}
```

Kết quả kiểm thử các test:

Run: TriangleTypeTest x Tests passed: 10 of 10 tests - 4 ms

Test Name	Duration
TriangleTypeTest	4 ms
test_EquiTri_1	2 ms
test_IsoTri_1	0 ms
test_IsoTri_2	0 ms
test_NotTri_1	1 ms
test_NotTri_2	1 ms
test_NotTri_3	0 ms
test_RightTri_1	0 ms
test_RightTri_2	0 ms
test_RightTri_3	0 ms
test_Delta	0 ms

Process finished with exit code 0

Đánh giá độ phủ: 100%

Coverage: TriangleTypeTest x

100% classes, 100% lines covered in 'all classes in scope'

Element	Class, %	Method, %	Line, %
apple			
com			
images			
java			
javax			
jdk			
junit			
META-INF			
netscape			
org			
sun			
toolbarButtonGraphics			
TriangleTester	100% (1/1)	100% (10/10)	100% (30/30)
TriangleType	100% (1/1)	100% (8/8)	100% (18/18)