

In our latest project demo, we add Transform2D class which is used to rotate the object like dials and needles. This is the core part of our project. So here is the Junit test of Transform2D.

```
package flatscape.domain;

import static org.junit.Assert.*;

import java.awt.geom.AffineTransform;

import org.junit.After;
import org.junit.Before;
import org.junit.Test;

public class Transform2DTest {

    @Before
    public void setUp() throws Exception {
    }

    @After
    public void tearDown() throws Exception {
    }

    @SuppressWarnings("deprecation")
    @Test
    public void testgetRotation() {
        //fail("Not yet implemented");
        Transform2D instance = new Transform2D(1.0D,1.0D,1.0D);
        double expResult = 1.0;
        double Result = instance.getRotation();
        assertEquals(expResult,Result,0.0);
    }

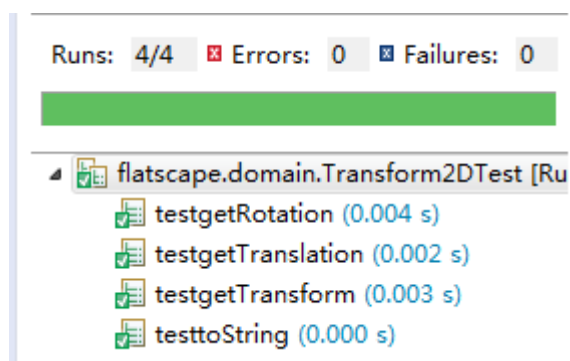
    @SuppressWarnings("null")
    @Test
    public void testgetTranslation() {
        Transform2D instance = new Transform2D(1.0D,1.0D,9.0D);
        AffineTransform Result;
        Result = instance.getTranslation();
        AffineTransform expResult = new AffineTransform();
        expResult.setToTranslation(1.0D,1.0D);
        assertEquals(expResult,Result);
    }
}
```

```

@Test
public void testgetTransform() {
    Transform2D instance = new Transform2D(1.0D,1.0D,9.0D);
    AffineTransform Result;
    Result = instance.getTransform();
    AffineTransform expResult = instance.getTranslation();
    AffineTransform localAffineTransform2 = AffineTransform.getRotateInstance(9.0D, 0.0d,
0.0D);
    expResult.concatenate(localAffineTransform2);
    assertEquals(expResult,Result);
}

@Test
public void testtoString() {
    Transform2D instance = new Transform2D(1.0D,1.0D,9.0D);
    String Result = instance.toString();
    String expResult = "1.0 1.0 1.0 1.0 9.0 0.0 0.0";
    assertEquals(expResult,Result);
}
}

```



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code below used for ImageDisplay.java testing.

```

/*
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */

```

```

package spectrophotometer;

import org.junit.After;
import org.junit.AfterClass;
import org.junit.Before;
import org.junit.BeforeClass;
import org.junit.Test;
import static org.junit.Assert.*;

/**
 *
 * @author Administrator
 */
public class ImageDisplayTest {

    public ImageDisplayTest() {
    }

    @BeforeClass
    public static void setUpClass() {
    }

    @AfterClass
    public static void tearDownClass() {
    }

    @Before
    public void setUp() {
    }

    @After
    public void tearDown() {
    }

    /**
     * Test of reader method, of class ImageDisplay.
     */

    /**
     * Test of main method, of class ImageDisplay.
     */
    @Test
    public void testMain() throws Exception {

```

```

        System.out.println("main");
        String[] args = null;
        ImageDisplay.main(args);
        System.out.println("Main pass");

    }

}

```

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code below used for Login.java testing.

```

/*
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */

```

```
package spectrophotometer;
```

```

import org.junit.After;
import org.junit.AfterClass;
import org.junit.Before;
import org.junit.BeforeClass;
import org.junit.Test;
import static org.junit.Assert.*;

```

```

/**
 *
 * @author Administrator
 */

```

```
public class LoginTest {
```

```

    public LoginTest() {
    }

```

```

    @BeforeClass
    public static void setUpClass() {
    }

```

```

    @AfterClass
    public static void tearDownClass() {
    }

```

```
    @Before
```

```

    public void setUp() {
    }

    @After
    public void tearDown() {
    }

    /**
     * Test of getAccountType method, of class Login.
     */
    @Test
    public void testGetAccountType() {
        System.out.println("getAccountType");
        Login instance = new Login();
        int expResult = 1;
        int result = instance.getAccountType();
        assertEquals(expResult, result);
    }

    /**
     * Test of readAccountInfo method, of class Login.
     */
    @Test
    public void testReadAccountInfo() {
        System.out.println("readAccountInfo");
        Login instance = new Login();
        Account result = instance.readAccountInfo();
    }
}

```

~~~~~  
 ~~~~~  
 code below used for Account.java testing.

```

/*
 * To change this template, choose Tools | Templates
 * and open the template in the editor.
 */
package spectrophotometer;

```

```

import org.junit.After;
import org.junit.AfterClass;

```

```

import org.junit.Before;
import org.junit.BeforeClass;
import org.junit.Test;
import static org.junit.Assert.*;

/**
 *
 * @author Administrator
 */
public class AccountTest {

    public AccountTest() {
    }

    @BeforeClass
    public static void setUpClass() {
    }

    @AfterClass
    public static void tearDownClass() {
    }

    @Before
    public void setUp() {
    }

    @After
    public void tearDown() {
    }

    /**
     * Test of getID method, of class Account.
     */
    @Test
    public void testGetID() {
        System.out.println("getID");
        Account instance = new Account();
        String expResult = "000000";
        String result = instance.getID();
        assertEquals(expResult, result);
    }

    /**

```

```

        * Test of getPassword method, of class Account.
    */
    @Test
    public void testGetPassword() {
        System.out.println("getPassword");
        Account instance = new Account();
        String expectedResult = "aaaa1111";
        String result = instance.getPassword();
        assertEquals(expectedResult, result);
    }

    /**
     * Test of getAccountType method, of class Account.
    */
    @Test
    public void testGetAccountType() {
        System.out.println("getAccountType");
        Account instance = new Account();
        int expectedResult = 1;
        int result = instance.getAccountType();
        assertEquals(expectedResult, result);
    }
}

```