

In our project only these 3 classes(ImageDisplay.java,Account.java and Login.java) need to do the unit test. We use Junit test to do this work. You can choose tool->junit test to create a new test class and then copy the code below to see they pass the test.

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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");

}

}

```

~~~~~  
 ~~
 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 expectedResult = 1;
        int result = instance.getAccountType();
        assertEquals(expectedResult, 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 expectedResult = "000000";
    String result = instance.getID();
    assertEquals(expectedResult, 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);
}
}

```