

JUnit - Suite Test

Test suite is used to bundle a few unit test cases and run them together. In JUnit, both **@RunWith** and **@Suite** annotations are used to run the suite tests. This chapter takes an example having two test classes, **TestJunit1** & **TestJunit2**, that run together using Test Suite.

Create a Class

Create a java class to be tested, say, **MessageUtil.java** in C:\>JUNIT_WORKSPACE.

```
/*
 * This class prints the given message on console.
 */

public class MessageUtil {

    private String message;

    //Constructor
    //@param message to be printed
    public MessageUtil(String message){
        this.message = message;
    }

    // prints the message
    public String printMessage(){
        System.out.println(message);
        return message;
    }

    // add "Hi!" to the message
    public String salutationMessage(){
        message = "Hi!" + message;
        System.out.println(message);
        return message;
    }
}
```

Create Test Case Classes

Create a java class file named **TestJunit1.java** in C:\>JUNIT_WORKSPACE.

```
import org.junit.Test;
import org.junit.Ignore;
import static org.junit.Assert.assertEquals;

public class TestJunit1 {

    String message = "Robert";
    MessageUtil messageUtil = new MessageUtil(message);

    @Test
    public void testPrintMessage() {
        System.out.println("Inside testPrintMessage()");
        assertEquals(message, messageUtil.printMessage());
    }
}
```

Create a java class file named **TestJunit2.java** in C:\>JUNIT_WORKSPACE.

```
import org.junit.Test;
import org.junit.Ignore;
import static org.junit.Assert.assertEquals;

public class TestJunit2 {

    String message = "Robert";
    MessageUtil messageUtil = new MessageUtil(message);

    @Test
    public void testSalutationMessage() {
        System.out.println("Inside testSalutationMessage()");
        message = "Hi!" + "Robert";
        assertEquals(message, messageUtil.salutationMessage());
    }
}
```

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Create Test Suite Class

Create a java class.

Attach @RunWith(Suite.class) Annotation with the class.

Add reference to JUnit test classes using @Suite.SuiteClasses annotation.

Create a java class file named **TestSuite.java** in C:\>JUNIT_WORKSPACE to execute test case(s).

```
import org.junit.runner.RunWith;
import org.junit.runners.Suite;

@RunWith(Suite.class)

@Suite.SuiteClasses({
    TestJUnit1.class,
    TestJUnit2.class
})

public class JunitTestSuite {
}
```

Create Test Runner Class

Create a java class file named **TestRunner.java** in C:\>JUNIT_WORKSPACE to execute test case(s).

```
import org.junit.runner.JUnitCore;
import org.junit.runner.Result;
import org.junit.runner.notification.Failure;

public class TestRunner {
    public static void main(String[] args) {
        Result result = JUnitCore.runClasses(JunitTestSuite.class);

        for (Failure failure : result.getFailures()) {
            System.out.println(failure.toString());
        }

        System.out.println(result.wasSuccessful());
    }
}
```

Compile all the java classes using javac.

```
C:\JUNIT_WORKSPACE>javac MessageUtil.java TestJUnit1.java  
TestJUnit2.java JunitTestSuite.java TestRunner.java
```

Now run the Test Runner, which will run the test case defined in the provided Test Case class.

```
C:\JUNIT_WORKSPACE>java TestRunner
```

Verify the output.

```
Inside testPrintMessage()  
Robert  
Inside testSalutationMessage()  
Hi Robert  
true
```