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JUnit with Hamcrest

Posted on December 18, 2015 by Arulkumaran Kumaraswamipillai

Q1. What is Hamcrest, and what is its purpose?

A1. HAMCREST is an anagram for **MATCHER**. The purpose is to match the assertions the BDD (Behavior Driven Development) style. In short, reads better like English statements. So,

Instead of:

```
assertEqual(greeterService.greetings(), "Hello Wo
```

with Hamcrest, reads better

```
assertThat("Hello World", is(equalTo(Greeter.gree
```

where "is(...)" needs a static import of

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```
1
2 import static org.hamcrest.CoreMatchers.*;
3
```

The above reads like English: assertThat "actual value" is equalTo "expected value".

Q2. What are the CoreMatchers class methods available for assertions?

A2. The CoreMatchers class has methods like

- allOf()
- any()
- anyOf()
- anything()
- describedAs()
- equalTo()
- instanceOf()
- is()
- not()
- notNullValue()
- nullValue()
- sameInstance()

Q3. What is the purpose of "assertThat" method in org.junit.Assert class?

A3. It replaces the deprecated org.junit.Assert.assertEquals() method, and it has the signature of

```
1
2 static <T> void assertThat(T actual, org.hamcrest
3
```

Examples with Hamcrest

```
1 package com.mytutorial;
2
3 //Hamcrest imports
4 import static org.hamcrest.CoreMatchers.anyOf;
5 import static org.hamcrest.CoreMatchers.equalTo;
6 import static org.hamcrest.CoreMatchers.instance;
7 import static org.hamcrest.CoreMatchers.is;
8 import static org.hamcrest.CoreMatchers.not;
9 import static org.hamcrest.CoreMatchers.notNullV
10 import static org.hamcrest.CoreMatchers.nullValu
```

```
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```
11 import static org.junit.Assert.assertThat;
12
13
   //Junit imports
14 import org.junit.Test;
15
16 public class SimpleTestsWithHamcrests {
17
18
       @Test
19
       public void testTwoPlusFive() {
20
            assertThat(2 + 5, is(equalTo(7)));
21
22
23
       @Test
24
       public void testNull() {
25
            Integer value1 = null; //actual value
26
            Integer value2 = 5;
                                    //actual value
27
28
            assertThat(value1, is(nullValue(Integer.
assertThat(value2, is(notNullValue(Integ
29
30
       }
31
32
       @Test
33
       //actual value is not anyOf null, instance o
34
       public void testNotNullAndInstance() throws
35
            String value = "John"; //actual value
36
            assertThat(
37
                    "John"
                    38
39
40
       }
41
42 }
```

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