In junit 4 hamcrest is already added as a transitive dependency

From junit 5 you have to manually add Hamcrest

Jars

Main jars are

Mockito-core

Mockito-junit-jupiter

Mockito-inline (this is to mock static and final methods)

## Run Gradle Test from command prompt intellij

* In windows use backslash only
* Dot( .) means current directory
* **Start** command in git bash Is to open the file

In intellij type below commands

1. Run “**test** “command with **gradlew** file

Command is “**.\gradlew test”**

1. To see all the test reports use the below command

**“Start** **./build/reports/tests/test/index.html**”

Note: - in git hub terminology start means open whereas dot means current directory

Hamcrest

Hamcrest-library

### Documentation –

Home page: <http://hamcrest.org>

Hamcrest 2.2 is stable for several years

Java implementation: <http://hamcrest.org/JavaHamcrest/>

JavaDocs: <http://hamcrest.org/JavaHamcrest/javadoc/>

Tutorial: <https://code.google.com/archive/p/hamcrest/wikis/Tutorial.wiki>

Mailing list: <https://groups.google.com/forum/?fromgroups#!forum/hamcrest-java>

Source code: <https://github.com/hamcrest/JavaHamcrest>

## 3rd generation Assertions

assertThat

Org.hamcrest.Matcher is an interface

Org.hamcrest.Matchers is a class

Org.hamcrest.MatcherAssert.assertThat() it is a class contain sonly assertThat methods

## Run gradle tests

#### Methods in Matchers Class

The below are the methods present in org.hamcrest.Matchers class

Famous one is

**assertThat(“abc”, is(“abc”));**

For all below assertions example refer **simpleAssertions.java,StringTests.java**

* anyOf(matcher1,matcher2); true if any matchers match
* allOf → true if all matchers match
* ContainsString(String str)

Ex:- assertThat(“abcd”,containsString(“abcdef”));

* anyOf → not → flips boolean
* isA,
* instanceOf → type test
* not
* nullValue, ex:- assertThat(null,nullValue());// to assert left hand side var is null
* notNullValue
* sameInstance
* greaterThan,
* greaterThanOrEqualTo
* lessThan,

for time comparisions use this

assertThat(LocalDate.now(),is(lessThan(localDate.now().minusDays(2))));

* lessThanOrEqualTo
* closeTo → used for floating point and BigDecimals is,
* equalTo
* equalToIgnoreCase,
* equalToCompressingWhiteSpace white space trimmed, then internal collapsed to single space
* containsString,
* endsWith,
* startsWith
* emptyString()
* emptyOrNullString()

In collections we can use these methods

hasSize(int size)

contains

containsInAnyOrder

hasItem()

In Arrays we can use these methods