**Junit**

Testing framework for java

Unit testing framework

**Features**

Fixtures – fixed state of objects for running test

Test Suites – bundles test cases and runs together @Runwith(suite.class) @Suite.suiteClasses()

Test runners – used for running tc

Junit Classes- assert class, testresult class

@Test

Assertequals

AssertFalse

AssertNull

**Methods of TestCase class**

countTestCases

createResult

run

setName

**Methods of TestRunner Class**

addError

addFailure

endTest

**Methods of Testsuite class**

addTest

addTestSuite

**Annotations**

@Before

@After

@BeforeClas

@AfterClass

@Ignore

@Test(expected = ArithmeticException)

@Test(timeout) = if tc takes more than specified time

@Runwith(parameterized.class)

**Mockito**

Mockinf framework for unit testing of java

Mock external dependencies

When(mock.somecode()).thenReturn // if called return this

Verify // check if the method is called

Spy

**reset**

**Logging**

Log4j Logging framework for java

Log4.properties or xml consist logger, appender,l ayout details

**Core Objects**

Loggers = capture logging info

Appenders = publish log info to destinations(file,jdbc,console)

Layouts = format loging info(html,pattern,xml layouts)

**Support Objects**

Level object

Log.setLevel(Level.Warn)

//levels

All

Debug

Info

Warn

Error

Fatal

OFF

trace

Filter object