Usage	Nunit	TestNG
Groups of tests	[TestFixture] [Category("LongRunning")] public class LongRunningTests { // }	<pre>@Test(groups = { "bonding", "strong_ties" }) public void tc01LaunchURL() { // }</pre>
Groups of tests		suite SYSTEM</td
	If you want your classes / methods to be run in an unpredictable order, then we should go for preserve-order attribute in testng. In TestNg bydefault the preserve-order attribute will be set to 'true', this means, TestNG will run your tests in the order they are found in the XML file.	"http://testng.org/testng-1.0.dtd"> <suite name="Preserve order test runs"> <test name="Regression 1" order="true" preserve-=""> <classes> <class name="com.pack.preserve.ClassOne"></class> <class name="com.pack.preserve.ClassTwo"></class> <class name="com.pack.preserve.ClassTwo"></class> <class name="com.pack.preserve.ClassThree"></class> </classes> </test></suite>
Preserver Order in Testng		
restrig	public class MyFixture { [Test, Order(1)] public void TestA() { /* */ }	<pre>@Test (priority = 1) public void func(){</pre>
	[Test, Order(2)] public void TestB() { /* */ }	//test code
priority/Ordering the test cases	[Test] public void TestC() { /* */ } }	}
	[TestFixture, Description("Fixture description here")] public class SomeTests { [Test, Description("Test description here")] public void OneTest()	<pre>@Test(description = "Test printing out all the Spring beans.") public void printAllBeansTest(Method ngMethod) { </pre>
The description for this method.	{ /* */ } }]}

	[Test] [Ignore("Ignore a test")] public void IgnoredTest() { /* */ }	@Ignore public class TestcaseSample { } @Test(enabled = false) public void testPrintMessage() {
Indicates that a test shouldn't be run for some reason	[TestFixture] [Ignore("Ignore a fixture")] public class SuccessTests { // }	System.out.println("Inside testPrintMessage()"); message = "Manisha"; Assert.assertEquals(message, messageUtil.printMessage()); }
parameterized test method	[Test, TestCaseSource("DivideCases")] public void DivideTest(int n, int d, int q) { Assert.AreEqual(q, n / d); } static object[] DivideCases = { new object[] { 12, 3, 4 }, new object[] { 12, 2, 6 }, new object[] { 12, 4, 3 } };	<pre>public class StaticProvider { @DataProvider(name = "create") public static Object[][] createData() { return new Object[][] { new Object[] { new Integer(42) } }; } } public class MyTest { @Test(dataProvider = "create", dataProviderClass = StaticProvider.class) public void test(Integer n) { // } }</pre>
run before any test method belonging to the classes inside the <test> tag is run</test>	[OneTimeSetUp] public void BaseSetUp() { /* */ }	<pre>@BeforeTest public void beforeTest() { m_dataSource =; m_jdbcDriver = driver; }</pre>
run after all the test methods belonging to the classes inside the <test> tag have run.</test>	[OneTimeTearDown] public void BaseTearDown() { /* */ }	<pre>@AfterTest public void afterTest() { m_dataSource =; m_jdbcDriver = driver; }</pre>

Specifies that the decorated method should be executed multiple times	[Test] [Repeat(25)] public void MyTest(){ // your test logic here }	<pre>@Test(invocationCount = 10) public void testServer() {</pre>
Causes a test to rerun if it fails, up to a maximum number of times	[Test, Retry(2)] public void test(){}	<pre>package Analyzer; import org.testng.IRetryAnalyzer; import org.testng.ITestResult; public class RetryAnalyzer implements IRetryAnalyzer { private int retryCnt = 0; private int maxRetryCnt = 2; // count for rerun public boolean retry(ITestResult result) { if (retryCnt < maxRetryCnt) { System.out.println("Retrying " + result.getName() + " again and the count is " + (retryCnt+1)); retryCnt++; return true; } return false; } } CTest(retryAnalyzer = Analyzer.RetryAnalyzer.class) public void Test1() { Assert.assertEquals(false, true); }</pre>
run after each test method.	[TearDown] public void BaseTearDown() { /* */ }	<pre>@AfterMethod public void afterTest() { m_dataSource =; m_jdbcDriver = driver; }</pre>
Test case method as part of the test.	[Test] public void Add() { /* */ }	@Test public void tc01LaunchURL() { // }

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	[TestFixture]	
	[Author("Jane Doe",	
	"jane.doe@example.com")]	
	public class MyTests	
	{	
	[Test]	
	[Author("Joe Developer")]	
	[Author("Yet Another Developer",	
The Author Attribute	"not.my.email@example.com")]	
	public void Test2() { /* */ }	
adds information about	}	
the author of the tests		
	[TestCase(12,3, Result=4)]	
	[TestCase(12,3, Result=6)]	
	public int DivideTest(int n, int d)	
	{	
	return(n / d);	
	}	
	[TestCase(12, 3, 4)]	
	public void DivideTest(int n, int d, int	@Parameters({ "first-name" })
	q)	@Test
	[{	<pre>public void testSingleString(String firstName) {</pre>
	Assert.AreEqual(q, n / d);	System.out.println("Invoked testString " +
	}	firstName);
		assert "Cedric".equals(firstName);
]}
		ccuito namo-"My cuito">
		<pre><suite name="My suite"></suite></pre>
		<pre><parameter <="" name="first-name" pre=""></parameter></pre>
		value="Cedric"/>
method with		<test name="Simple example"></test>
parameters		<>

```
[Test, Timeout(2000)]
                         public void
                         PotentiallyLongRunningTest()
                                                                 @Test(timeOut=1000) // specify time in
                                                                 milliseconds
                           /* ... */
Provides a timeout
                                                                 public void executetimeOut() throws
                                                                 InterruptedException{
value in milliseconds for
test cases
                                                                 Thread.sleep(3000);
                         [Test, MaxTime(2000)]
                                                                        // Thread.sleep(500);
                         public void TimedTest()
                           /* ... */
PropertyAttribute
provides a generalized
approach to setting
                         [Test, Property("Severity",
named properties on
any test case or fixture,
                         "Critical")]
                           public void AdditionTest()
using a name/value
pair.
                           { /* ... */ }
                                                                 @BeforeMethod
                                                                 public void beforeTest() {
                         [SetUp]
                                                                 m dataSource = ...;
                           public void BaseSetUp() { /* ... */ }
run before each test
                                                                  m_jdbcDriver = driver;
method.
                                                                 [TestFixture]
                                                                  public class SuccessTests
                                                                 {
                                                                   // ...
                                                                 [TestFixture(42, 42, 99)]
                                                                 public class ParameterizedTestFixture
                                                                   private string eq1;
                         This is the attribute that marks a class
                                                                   private string eq2;
                         that contains tests and, optionally,
                                                                   private string neq;
                         setup or teardown methods
                                                                   public ParameterizedTestFixture(int eq1, int
                                                                eq2, int neq)
                                                                  {
                                                                     this.eq1 = eq1.ToString();
                                                                     this.eq2 = eq2.ToString();
                                                                     this.neq = neq.ToString();
                                                                   }
[TestFixture]
```

		[TestFixture]
		public class MyTests
		public class wyrests
		[1
		[TestCaseSource(typeof(MyDataClass),
		"TestCases")]
		public int DivideTest(int n, int d)
		{
		return n / d;
		}
		1,
	The TestCaseData class provides	,
	extended test case information for a	
	parameterized test, although any	public class MyDataClass
	object deriving from	[{
	TestCaseParameters may be used.	public static IEnumerable TestCases
	Unlike NUnit 2, you cannot implement	{
	ITestCaseData, you must derive from	get
	TestCaseParameters.	{
		yield return new TestCaseData(12,
		3).Returns(4);
		yield return new TestCaseData(12,
		2).Returns(6);
		yield return new TestCaseData(12,
		4).Returns(3);
		}
		}
TestCaseData		}
resteases ata		[TestFixtureSource(typeof(AnotherClass),
		"FixtureArgs")]
		public class MyTestClass
		[{
		public MyTestClass(string word, int num) { }
	TestFixtureSourceAttribute is used on	
	a parameterized fixture to identify the	
	source from which the required	}
	constructor arguments will be	
	provided. The data is kept separate	class AnotherClass
	from the fixture itself and may be used by multiple fixtures.	{
	used by multiple lixtures.	static object [] Eivturo Argo = [
		static object [] FixtureArgs = {
		new object[] { "Question", 1 },
		new object[] { "Answer", 42 }
		l .
[TestFixtureSource]		};

		@BeforeSuite
		@BeforeTest
	IOn a Time a Cath In 1	@BeforeClass
	[OneTimeSetUp] [SetUp]	@BeforeMethod
	[Test] {Testcase 1}	@Test {Testcase 1}
	[TearDown]	@AfterMethod
	[SetUp]	@BeforeMethod
	[Test] {Testcase 2}	@Test {Testcase 2}
	[TearDown]	@AfterMethod
	[OneTimeTearDown]	@AfterClass
Order of Annotation		@AfterTest
Execution		@AfterSuite
		suite SYSTEM</td
		"https://testng.org/testng-1.0.dtd" >
	[TestFixture]	<pre><suite name="Parallel Testing Suite"></suite></pre>
	[Parallelizable]	<test name="Parallel Tests" parallel="</td"></test>
	public class MyClassTests1 {	"methods" thread-count = "2">
	}	<classes></classes>
	[TestFixture]	<pre><class name="ParallelTest"></class></pre>
	[Parallelizable] public class MyClassTests2 {	
	Public Class MyClass Fests2 {	
	Add this into the test project	- y suites
	AssemblyInfo.cs class for nunit3 or	Methods: This will run the parallel tests on all
	greater:	@Test methods in TestNG.
	// NAche all toots in the test consult.	Tests: All the test cases present inside the
	// Make all tests in the test assembly run in parallel	·
	[assembly:	<test> tag will run with this value.</test>
	Parallelizable(ParallelScope.Fixtures)]	Classes: All the test cases present inside the
	or [assembly:	classes that exist in the XML will run in parallel.
	Parallelizable(ParallelScope.Children)	Instances: This value will run all the test cases
		parallelly inside the same instance.
	//Number of iternations	
	[assembly: LevelOfParallelism(5)]	
Parallel Execution		
- aranci Exceditori		

		Reporters implement the interface org.testng.IReporter and are notified when all the suites have been run by TestNG
Cat Tast Dura status	TestContext.CurrentContext.Result.O utcome.Status	<pre>ITestResult result = Reporter.getCurrentTestResult(); if(result.getStatus()==ITestResult.SUCCESS) {} Else if(result.getStatus()==ITestResult.FAILURE) {}</pre>
Get Test Run status		
[SetUpFixture]	This is the attribute that marks a class that contains the one-time setup or teardown methods for all the test fixtures under a given namespace. The class may contain at most one method marked with the OneTimeSetUpAttribute and one method marked with the OneTimeTearDownAttribute.	using System; using NUnit.Framework; namespace NUnit.Tests { [SetUpFixture] public class MySetUpClass { [OneTimeSetUp] public void RunBeforeAnyTests() { // } [OneTimeTearDown] public void RunAfterAnyTests() { // } } } }