**Parameterizing tests in TestNG:**

Global Parameters like URLs, environment variables etc., can be defined at test level and suite level.

IF you define them at test level, the parameters can be accessed at test level only. If you define them at suite level, the parameters can be accessed for the entire suite.

TestNG XML:

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">

<suite name=*"BasicSuite"*>

<test thread-count=*"5"* name=*"TextBoxTest"*>

**<parameter name=*"URL"* value=*"file:///D:/Selenium%20Course/Java/index.html"*/>**

<classes>

<class name=*"TestNGExamples.TextBox"*/>

</classes>

</test> <!-- Test -->

<test thread-count=*"5"* name=*"TextAreaTest"*>

<classes>

<class name=*"TestNGExamples.TextArea"*/>

</classes>

</test> <!-- Test -->

<test thread-count=*"5"* name=*"CheckBoxesTest"*>

<classes>

<class name=*"TestNGExamples.CheckBoxes"*/>

</classes>

</test> <!-- Test -->

<test thread-count=*"5"* name=*"RadioButtonsTest"*>

<classes>

<class name=*"TestNGExamples.RadioButtons"*/>

</classes>

</test> <!-- Test -->

</suite> <!-- Suite -->

Test file:

**package** TestNGExamples;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.firefox.FirefoxDriver;

**import** org.testng.annotations.AfterMethod;

**import** org.testng.annotations.BeforeMethod;

**import** org.testng.annotations.Parameters;

**import** org.testng.annotations.Test;

**public** **class** TextBox {

**@Parameters({"URL"})**

@Test

**public** **void** TextBox1(**String urlname**) **throws** InterruptedException{

System.*setProperty*("webdriver.gecko.driver", "C:\\BrowserDrivers\\geckodriver.exe");

WebDriver driver = **new** FirefoxDriver();

**driver.get(urlname);**

//Thread.sleep(2000);

driver.findElement(By.*id*("firstname")).sendKeys("Subbu");

//Thread.sleep(2000);

driver.quit();

}

@Parameters({"URL"})

@Test

**public** **void** TextBox2(String urlname) **throws** InterruptedException {

System.*setProperty*("webdriver.gecko.driver", "C:\\BrowserDrivers\\geckodriver.exe");

WebDriver driver = **new** FirefoxDriver();

driver.get(urlname);

//Thread.sleep(2000);

driver.findElement(By.*xpath*("//input[@color='red']")).sendKeys("Venkat");

//Thread.sleep(2000);

driver.quit();

}

@Test

**public** **void** TextBox3() **throws** InterruptedException {

System.*setProperty*("webdriver.gecko.driver", "C:\\BrowserDrivers\\geckodriver.exe");

WebDriver driver = **new** FirefoxDriver();

driver.get("file:///D:/Selenium%20Course/Java/index.html");

//Thread.sleep(2000);

driver.findElement(By.*id*("first name")).sendKeys("Ganesh");

//Thread.sleep(2000);

driver.quit();

}

@Test(groups={"smoke"})

**public** **void** TextBox4() **throws** InterruptedException {

System.*setProperty*("webdriver.gecko.driver", "C:\\BrowserDrivers\\geckodriver.exe");

WebDriver driver = **new** FirefoxDriver();

driver.get("file:///D:/Selenium%20Course/Java/index.html");

//Thread.sleep(2000);

driver.findElement(By.*xpath*("//input[starts-with(@id,'last')]")).sendKeys("Rajesh");

//Thread.sleep(2000);

driver.quit();

}

@BeforeMethod(groups={"smoke"})

**public** **void** BeforeTestExecution() {

System.***out***.println("I will be executed before each method");

}

@AfterMethod(groups={"smoke"})

**public** **void** AfterTestExecution() {

System.***out***.println("I will be executed After each method");

}

}

You can pass multiple values as well.

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">

<suite name=*"BasicSuite"*>

<test thread-count=*"5"* name=*"TextBoxTest"*>

**<parameter name=*"URL"* value=*"file:///D:/Selenium%20Course/Java/index.html"*/>**

**<parameter name=*"USERNAME"* value=*"subbu"*/>**

<classes>

<class name=*"TestNGExamples.TextBox"*/>

</classes>

</test> <!-- Test -->

<test thread-count=*"5"* name=*"TextAreaTest"*>

<classes>

<class name=*"TestNGExamples.TextArea"*/>

</classes>

</test> <!-- Test -->

<test thread-count=*"5"* name=*"CheckBoxesTest"*>

<classes>

<class name=*"TestNGExamples.CheckBoxes"*/>

</classes>

</test> <!-- Test -->

<test thread-count=*"5"* name=*"RadioButtonsTest"*>

<classes>

<class name=*"TestNGExamples.RadioButtons"*/>

</classes>

</test> <!-- Test -->

</suite> <!-- Suite -->

Test File:

Test file:

**package** TestNGExamples;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.firefox.FirefoxDriver;

**import** org.testng.annotations.AfterMethod;

**import** org.testng.annotations.BeforeMethod;

**import** org.testng.annotations.Parameters;

**import** org.testng.annotations.Test;

**public** **class** TextBox {

**@Parameters({"URL","USERNAME"})**

@Test

**public** **void** TextBox1(**String urlname, String uname**) **throws** InterruptedException{

System.*setProperty*("webdriver.gecko.driver", "C:\\BrowserDrivers\\geckodriver.exe");

WebDriver driver = **new** FirefoxDriver();

**driver.get(urlname);**

//Thread.sleep(2000);

**driver.findElement(By.*id*("firstname")).sendKeys(uname);**

//Thread.sleep(2000);

driver.quit();

}

}