**TestNG programs examples**

**8)TestNG PARAMETERS**

**1)FOR ONE METHOD IN A CLASS**

**ParaSingle.java:**

**package** testngtrail;

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

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

**public** **class** ParaSingle {

@Parameters({"a","b"})

@Test

**public** **void** addition (**int** v1,**int** v2)

{

**int** sum=v1+v2;

System.***out***.println("sum is :"+sum);

}

}

1)XML file(SUITE level)

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

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

<suite parallel=*"false"* name=*"Suite"*>

<parameter name=*"a"* value=*"10"*/>

<parameter name=*"b"* value=*"8"*/>

<test name=*"Test"*>

<classes>

<class name=*"testngtrail.ParaSingle"*/>

</classes>

</test>

</suite>

**OUTPUT:**

[RemoteTestNG] detected TestNG version 7.4.0

sum is :18

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Suite

Total tests run: 1, Passes: 1, Failures: 0, Skips: 0

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**2)XML file ( TEST level)**

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

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

<suite parallel=*"false"* name=*"Suite"*>

<test name=*"Test"*>

<parameter name=*"a"* value=*"10"*/>

<parameter name=*"b"* value=*"8"*/>

<classes>

<class name=*"testngtrail.ParaSingle"*/>

</classes>

</test>

</suite>

**Output:**

[RemoteTestNG] detected TestNG version 7.4.0

sum is :18

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Suite

Total tests run: 1, Passes: 1, Failures: 0, Skips: 0

**2)XML file ( TEST and SUITE level)**

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

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

<suite parallel=*"false"* name=*"Suite"*>

<parameter name=*"a"* value=*"15"*/>

<parameter name=*"b"* value=*"94"*/>

<test name=*"Test"*>

<parameter name=*"a"* value=*"10"*/>

<parameter name=*"b"* value=*"8"*/>

<classes>

<class name=*"testngtrail.ParaSingle"*/>

</classes>

</test>

</suite>

**Output:**

[RemoteTestNG] detected TestNG version 7.4.0

sum is :18

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Suite

Total tests run: 1, Passes: 1, Failures: 0, Skips: 0

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**org.testng.TestNGException:**

**Cannot inject @Test annotated Method [sub] with [int, int].**

**For more information on native dependency injection please refer to** [**https://testng.org/doc/documentation-main.html#native-dependency-injection**](https://testng.org/doc/documentation-main.html#native-dependency-injection)

**3)parameters for more methods(same)**

**package** testngtrail;

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

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

**public** **class** ParaSingle {

@Parameters({"a","b"})

@Test

**public** **void** addition(**int** v1,**int** v2)

{

**int** sum=v1+v2;

System.***out***.println("sum is :"+sum);

}

@Test

@Parameters({"a","b"})

**public** **void** difference(**int** v1,**int** v2)

{

**int** sub=v1-v2;

System.***out***.println("sum is :"+sub);

}

}

**OUTPUT:**

[RemoteTestNG] detected TestNG version 7.4.0

sum is :18

sum is :2

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Suite

Total tests run: 2, Passes: 2, Failures: 0, Skips: 0

**)parameters for more CLASSES(same)**

**a)** **ParaSingle.java**

**package** testngtrail;

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

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

**public** **class** ParaSingle {

@Parameters({"a","b"})

@Test

**public** **void** addition(**int** v1,**int** v2)

{

**int** sum=v1+v2;

System.***out***.println("sum is :"+sum);

}

}

**a)** **ParameTest.java**

**package** testngtrail;

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

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

**public** **class** ParameTest {

@Test

@Parameters({"a","b"})

**public** **void** difference(**int** v1,**int** v2)

{

**int** sub=v1-v2;

System.***out***.println("sub is :"+sub);

}

}

**Xml file**

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

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

<suite parallel=*"false"* name=*"Suite"*>

<parameter name=*"a"* value=*"10"*/>

<parameter name=*"b"* value=*"8"*/>

<test name=*"Test"*>

<parameter name=*"a"* value=*"10"*/>

<parameter name=*"b"* value=*"8"*/>

<classes>

<class name=*"testngtrail.ParaSingle"*/>

<class name=*"testngtrail.ParameTest"*/>

</classes>

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

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

**Output:**

[RemoteTestNG] detected TestNG version 7.4.0

sum is :18

sub is :2

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Suite

Total tests run: 2, Passes: 2, Failures: 0, Skips: 0

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**Live example for parameter passing**

**ParameterTest.java**

**package** webpagetest;

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

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

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.support.ui.Select;

**import** org.testng.annotations.BeforeTest;

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

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

**public** **class** ParameterTest {

**public** WebDriver driver;

@BeforeTest

**public** **void** launch()

{

System.*setProperty*("webdriver.chrome.driver", "C:/drivers/chromedriver.exe");

driver=**new** ChromeDriver();

driver.get("https://computer-database.gatling.io/computers");

driver.findElement(By.*cssSelector*("#add")).click();

}

@Test

@Parameters({"name","sdate","edate","com"})

**public** **void** enterdetails(String cname ,String sdate,String edate,**int** a)

{

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

driver.findElement(By.*id*("introduced")).sendKeys(sdate);

driver.findElement(By.*id*("discontinued")).sendKeys(edate);

Select dropdown=**new** Select( driver.findElement(By.*id*("company")));

dropdown.selectByIndex(a);

driver.findElement(By.*xpath*("//body/section[@id='main']/form[1]/div[1]/input[1]")).click();

}

}

**XML FILE:**

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

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

<suite parallel=*"false"* name=*"Suite"*>

<test name=*"Test1"*>

<parameter name=*"name"* value=*"SUHANINC"*/>

<parameter name=*"sdate"* value=*"2018-01-22"*/>

<parameter name=*"edate"* value=*"2025-01-22"*/>

<parameter name=*"com"* value=*"9"*/>

<classes>

<class name=*"webpagetest.ParameterTest"*/>

</classes>

</test>

<test name=*"Test2"*>

<parameter name=*"name"* value=*"SUHANIBM"*/>

<parameter name=*"sdate"* value=*"2018-01-22"*/>

<parameter name=*"edate"* value=*"2025-01-22"*/>

<parameter name=*"com"* value=*"6"*/>

<classes>

<class name=*"webpagetest.ParameterTest"*/>

</classes>

</test>

</suite>

**Output:**

Done ! Computer SUHANINC has been created

Done ! Computer SUHANIBM has been created

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Suite

Total tests run: 2, Passes: 2, Failures: 0, Skips: 0

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