1.1 Perform All Test Annotations



This section will guide you to:

* Implement @Test and other related annotations

**Development Environment**

* Eclipse IDE for Enterprise Java Developers v2019-03 (4.11.0)
* JRE: OpenJDK Runtime Environment 11.0.2
* TestNG

This guide has six sub-sections, namely:

* + 1. Creating a simple Java project
    2. Installing TestNG
    3. Adding TestNG libraries to the Class-Path
    4. Creating a class file named TestAnnotations
    5. Running the project as TestNG
    6. Pushing the code to your GitHub repositories

**Step 1.1.1:** Creating a simple Java project

* Open Eclipse.
* Go to the **File** menu and select **New->Java Project.**
* Enter the project name as **Annotations**. Click on **Next.**
* This will create the project files in the Project Explorer.

**Step 1.1.2:** Installing TestNG

* TestNG is already installed in your Practice labs. To learn about its directory details you can refer to the lab guide for Phase 2.

**Step 1.1.3:** Adding TestNG libraries to the Class Path

* In the **Project Explorer**, right-click on **Annotations.**
* Select **Properties**. Select **Java Build Path** from the list. Go to **Libraries.**
* Click on **Add Library.** Select **TestNG**. Click on **Next**. Now, click on **Finish.**
* Finally, click on **Apply and Close.**

**Step 1.1.4:** Creating a class file named TestAnnotations

* In the Project Explorer, expand **Annotations->Java Resources.**
* Right-click on **src** and choose **New->Class.**
* In **Class Name,** enter **TestAnnotations**. In **Package Name,** enter **com.testannotations** and click on **Finish.**
* Enter the following code:

**package** com.testannotations;

**import** org.testng.annotations.\*;

**public** **class** TestAnnotations {

@Test

**public** **void** Test1() {

System.***out***.println("Test1 Executed");

}

@Test

**public** **void** Test2() {

System.***out***.println("Test2 Executed");

}

@BeforeTest

**public** **void** beforeTest() {

System.***out***.println("BeforeTest Executed");

}

@AfterTest

**public** **void** AfterTest() {

System.***out***.println("AfterTest Executed");

}

@BeforeMethod

**public** **void** beforeMethod() {

System.***out***.println("BeforeMethod Executed");

}

@AfterMethod

**public** **void** afterMethod() {

System.***out***.println("AfterMethod Executed");

}

@BeforeClass

**public** **void** beforeClass() {

System.***out***.println("BeforeClass Executed");

}

@AfterClass

**public** **void** afterClass() {

System.***out***.println("AfterClass Executed");

}

}

**Step 1.1.5:** Running the project as TestNG

* Right-click on **TestAnnotations** class. Click on **TestNG->Convert to TestNG.**
* Click on **Finish.** It will create a **TestNG.xml** file. Open that file.
* Right click on the screen. Select **Run As ->TestNG Suite.**

**Step 1.1.6:** Pushing the code to your GitHub repositories

Open your command prompt and navigate to the folder where you have created your files.

cd <folder path>

Initialize your repository using the following command:

git init

Add all the files to your git repository using the following command:

git add . 

Commit the changes using the following command:

git commit . -m “Changes have been committed.”

Push the files to the folder you initially created using the following command:

git push -u origin master