**­­TestNG Interview Question**

**Q) What is TestNG? (symphony telca)**

Ans:- TestNG is an automated open source testing framework.

**Q) Why you have used TestNG in your framework? Can you compare JUNIT with TestNG framework? (Wipro,Cybage, Avaya, Teito)**

Ans:-

Compare to JUnit annotations, TestNG are easy to understand

Unlike JUnit, TestNG does not require to declare @BeforeClass and @AfterClass

Method name constraint is not there in TestNG

TestNG allows you the grouping of test cases easily which is not possible in JUnit

TestNG supports following three additional setup: @Before/AfterSuite, @Before/AfterTest and @Before/AfterGroup

TestNG does not need to extend any class

In TestNG, it is possible to run selenium test cases in parallel

Based on group TestNG allows you to execute the test cases

TestNG allows you to determine the dependent test cases; each test case is autonomous to other test case

**Q) What are different annotation present in TestNG? Can you name few amongst them ?(KPIT, Techm, Citi bank, TCS)**

Ans:-

@BeforeSuite

@AfterSuite

@BeforeTest

@AfterTest

@BeforeGroups

@AfterGroups

@BeforeClass

@AfterClass

@BeforeMethod

@AfterMethod

**Q) What is priority feature in TestNG? In addition, how we can use this? (Synechron,Kpit, capgemeni, fluent India)**

Ans:- If you want the @Test methods to be executed in your order, then you need to use the ‘priority‘ .

Like First we need to execute a test case "Registration" before login. In order to achive, we use need to add annotation as @Test(priority=??).

Sequence of execution is in ascending order of value. “0”is having highest priority so it will be executed first. There is no need for your values to be consecutive

Example:- @Test (priority=0)

**Q) What is dependsOnMethods(Zensar, Wipro )**

Ans:-

In real time, you will come across many situations where you have to create test cases which are dependent on the previous test case.

Take an example I have 3 test cases.

First one which verify login credential and start application, second test case check some validation or do some activity, third test case simply just for log-out activity.

If my first test case does not work (failed) then it does not make any sense to run second and third test case. So in these types of scenarios you can use dependency between test cases.

Syntax- @Test( dependsOnMethods = {"loginTestCase"} )

**Q) What is testng.xml file in TestNG? (media ocean, HSBC, NTT data)**

Ans:-

In any project, you will end up to a place where you need to execute so many test cases on a run. Running a set of test cases together is call executing a Test Suite.

Those test cases can be dependent to each other or may have to be executed in a certain order. testng.xml file where you will configure your test run, set test dependency, include or exclude any test, method, class or package and set priority etc.

**Q) How to group test cases in TestNG?**

Ans:-

In TestNg you can form a group of test cases and run it .It allows us to execute only set of groups while excluding another set.

Groups are specified in testng.xml file and can be used with tag.

Example:-

public class groupExamples {

@Test(groups="Regression")

public void testCaseOne()

{

System.out.println("Im in testCaseOne - And in Regression Group");

}

@Test(groups="Regression")

public void testCaseTwo(){

System.out.println("Im in testCaseTwo - And in Regression Group");

}

@Test(groups="Smoke Test")

public void testCaseThree(){

System.out.println("Im in testCaseThree - And in Smoke Test Group");

}

@Test(groups="Regression")

public void testCaseFour(){

System.out.println("Im in testCaseFour - And in Regression Group");

}

}

The below is the XML file to execute, the test methods with group.

We will execute the group “Regression” which will execute the test methods which are defined with group as “Regression”

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

<suite name="Sample Suite">

<test name="testing">

<groups>

<run>

<include name="Regression"/>

</run>

</groups>

<classes>

<class name="com.example.group.groupExamples" />

</classes>

</test>

</suite>

**Q) How to execute multiple test cases in Selenium? (Amdocs ,Accenture)**

Ans:- using TestNG.xml

**Q) How to execute parallel test cases in Selenium? (PTC, mindtree)**

Ans:- There are two ways

1> using DataProvideranotation :- @DataProvider(parallel=true)

2> using testng.xml :- <suite name="My suite" parallel="methods" >

**Q) What is Data provider in TestNG?**

Ans:- It is used to parameterize the test. we can also achive parallel execution using same.

**Q) How to skip or disable particular test case? (Infy, persistent, Avaya, Wipro)**

Ans:- Two ways to do it.

1>@Test(enabled=false)

2>Write “throw new SkipException("any message");” inside a Test method which you want to skip.

**Q) How to execute only failed test cases in Selenium? (Synerzip, HCL, Accenture, Capgemeni)**

Ans:-

Every time tests fail in a suite, TestNG creates a file called testng-failed.xml in the output directory.

This XML file contains the necessary information to rerun only these methods that failed, utlizing this we can easily rerun the failed tests without having to run the entire test suite.