Sample Test

```
package testNG;
import org.testng.annotations.Test;
public class SampleTest {
 @Test
 public void first() {
       System.out.println("i am first test.....");
  }
 @Test
 public void second() {
       System.out.println("i am second test.....");
  }
 @Test
 public void third() {
       System.out.println("i am third test.....");
  }
 @Test
 public void fourth() {
       System.out.println("i am fourth test.....");
 }
}
```

Priority

```
package testNG;
import org.testng.annotations.Test;
public class Priority {
     @Test(priority = 0)
     public void mujeeb() {
           System.out.println("Start the mujeeb.....");
     }
     @Test(priority = 0)
     public void thasmeer() {
           System.out.println("Start the thasmeer....");
     }
     @Test(priority = 4)
     public void arham() {
           System.out.println("Start the arham....");
     }
     @Test(priority = 2)
     public void safa() {
           System.out.println("Start the safa....");
     }
     @Test(priority = 5)
     public void naja() {
           System.out.println("Start the naja....");
     }
     @Test(priority = 1)
     public void aasir() {
           System.out.println("Start the aasir....");
     }
     @Test(priority = 3)
     public void nihath() {
           System.out.println("Start the nihath....");
     }
```

Skip Test Case

```
package testNG;
import org.testng.annotations.Test;
public class SkipTestCase {
     @Test(priority = 0)
     public void mujeeb() {
           System.out.println("Start the mujeeb.....");
     }
     @Test(priority = 0, enabled = false)
     public void thasmeer() {
           System.out.println("Start the thasmeer....");
     }
     @Test(priority = 4)
     public void arham() {
           System.out.println("Start the arham....");
     }
     @Test(priority = 2)
     public void safa() {
           System.out.println("Start the safa....");
     }
     @Test(priority = 5, enabled = false)
     public void naja() {
           System.out.println("Start the naja....");
     }
     @Test(priority = 1)
     public void aasir() {
           System.out.println("Start the aasir....");
     }
     @Test(priority = 3)
     public void nihath() {
           System.out.println("Start the nihath....");
     }
}
```

Dependency Management

```
package testNG;
import org.testng.annotations.Test;
public class DependencyManagement {
     @Test(dependsOnMethods = "degree")
     public void pgd() {
           System.out.println("i am pgd");
     }
     @Test(dependsOnMethods = "hnd")
     public void degree() {
           System.out.println("i am Degree");
     }
     @Test(enabled = false, dependsOnMethods = "diploma")
     public void hnd() {
           System.out.println("i am hnd");
     }
     @Test(dependsOnMethods = "certificate")
     public void diploma() {
           System.out.println("i am diploma");
     }
     @Test(enabled = true)
     public void certificate() {
           System.out.println("i am certificate");
     }
}
```

Suite Example

```
package testNG;
import org.openqa.selenium.WebDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterSuite;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.Test;
public class SuiteExample {
     WebDriver driver;
     long startTime;
     long endTime;
     long totalTime;
     @BeforeSuite
     public void open() {
           startTime = System.currentTimeMillis();
           System.setProperty("webdriver.chrome.driver",
                      "D:\\Selenium
Drivers\\chromedriver win32\\chromedriver.exe");
           driver = new ChromeDriver();
     }
     @Test(priority = 0)
     public void google() {
           driver.get("https://www.google.com");
     }
     @Test(priority = 1)
     public void youtube() {
           driver.get("https://www.youtube.com");
     }
     @Test(priority = 2)
     public void facebook() {
           driver.get("https://www.facebook.com");
     }
     @AfterSuite
     public void close() {
```

```
driver.quit();
    endTime = System.currentTimeMillis();
    totalTime = endTime - startTime;
    System.out.println("Total time taken is: " + totalTime);
}
```

XML File

Grouping

```
package testNG;
import org.testng.annotations.Test;
public class Grouping {
     // we will run only samsung and redmi mobile groups in xml file
     @Test(groups = {"Nokia"})
     public void nokia() {
          System.out.println("Nokia mobile.....");
     }
     @Test(groups = {"Nokia"})
     public void nokia2() {
          System.out.println("Nokia mobile....");
     }
     @Test(groups = {"Samsung"})
     public void samsung() {
          System.out.println("Samsung mobile.....");
     }
     @Test(groups = {"Samsung"})
     public void samsung2() {
          System.out.println("Samsung mobile.....");
     }
     @Test(groups = {"Apple"})
     public void apple() {
          System.out.println("Apple mobile.....");
     }
     @Test(groups = {"Apple"})
     public void apple2() {
          System.out.println("Apple mobile.....");
     }
     @Test(groups = {"Redmi"})
     public void redmi() {
          System.out.println("Redmi mobile.....");
     @Test(groups = {"Redmi"})
     public void redmi2() {
          System.out.println("Redmi mobile....");
     }
}
```

XML File - Grouping

Parameterization

```
package testNG;
import org.testng.annotations.Parameters;
import org.testng.annotations.Test;
public class Parameterization {
     @Test
     @Parameters("Name")
     public void printName(String name) {
           System.out.println("The name is: " + name);
     }
     @Test
     @Parameters({"Name2","Name3"})
     public void printName2(String name, String name2) {
           System.out.println("The name is: " + name);
           System.out.println("The name is: " + name2);
     }
}
```

XML File - Parameterization

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd" >
<suite name="Parameterization Test">
<test name="Parameterization Test Cases">
<parameter name="Name" value="Mujeeb"></parameter>
<parameter name="Name2" value="Aasir"></parameter>
<parameter name="Name3" value="Safa"></parameter>
<parameter name="Name3" value="Safa"></parameter>
<classes>
<class name="testNG.Parameterization"></class>
</classes>
</test>
</test>
</test>
</suite>
```

Parallel Testing

```
package testNG;
import org.openqa.selenium.WebDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.testng.annotations.Test;
public class ParellelTesting {
     @Test
     public void openGoogle() {
           System.setProperty("webdriver.chrome.driver",
                      "D:\\Selenium
Drivers\\chromedriver win32\\chromedriver.exe");
           WebDriver driver = new ChromeDriver();
           driver.get("https://www.google.com/");
           driver.quit();
     }
     @Test
     public void openYoutube() {
           System.setProperty("webdriver.chrome.driver",
                      "D:\\Selenium
Drivers\\chromedriver win32\\chromedriver.exe");
           WebDriver driver = new ChromeDriver();
           driver.get("https://www.youtube.com/");
           driver.quit();
     }
}
                    XML File - Parallel Testing
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd" >
<suite name="ParellelTesting Test" verbose="2" parallel="methods"</pre>
thread-count="2">
<test name="ParellelTesting Test Cases">
<classes>
<class name="testNG.ParellelTesting"></class>
</classes>
</test>
</suite>
```

<u>Assertion</u>

```
package testNG;
import org.testng.Assert;
import org.testng.annotations.Test;
public class Assertion {
       String name = "Mujeeb";
       boolean val = true;
       @Test
       public void equalName() {
              if(name.equals("Mujeeb")) {
                     System.out.println("Name is equal");
              else {
                     System.out.println("Name is not equal");
              */
              Assert.assertEquals(name, "Mujeeb");
              //Assert.assertNotEquals(name, "mujeeb");
              //Assert.assertFalse(val, "This is true");
              //Assert.assertTrue(val, "This is true");
       }
}
```

Annotation Hierarchy

```
package testNG;
import org.testng.annotations.Test;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.AfterSuite;
public class AnnotationHierachi {
 @Test
 public void test() {
        System.out.println("I am test");
 }
 @Test
 public void test2() {
        System.out.println("I am test2");
 }
 @Test
 public void test3() {
        System.out.println("I am test3");
 }
 @BeforeMethod
 public void beforeMethod() {
        System.out.println("I am before method");
 }
 @AfterMethod
 public void afterMethod() {
        System.out.println("I am after method");
 }
 @BeforeClass
 public void beforeClass() {
        System.out.println("I am before class");
 }
 @AfterClass
```

```
public void afterClass() {
        System.out.println("I am after class");
 }
 @BeforeTest
 public void beforeTest() {
        System.out.println("I am before test");
 }
 @AfterTest
 public void afterTest() {
        System.out.println("I am after test");
 }
 @BeforeSuite
 public void beforeSuite() {
        System.out.println("I am before suite");
 }
 @AfterSuite
 public void afterSuite() {
        System.out.println("I am after suite");
 }
}
```

Listener

```
package testNG;
import org.testng.ITestContext;
import org.testng.ITestListener;
import org.testng.ITestResult;
public class Listener implements ITestListener{
     @Override
     public void onTestStart(ITestResult result) {
           // TODO Auto-generated method stub
           ITestListener.super.onTestStart(result);
           System.out.println("onTestStart");
     }
     @Override
     public void onTestSuccess(ITestResult result) {
           // TODO Auto-generated method stub
           ITestListener.super.onTestSuccess(result);
           System.out.println("onTestSuccess");
     }
     @Override
     public void onTestFailure(ITestResult result) {
           // TODO Auto-generated method stub
           ITestListener.super.onTestFailure(result);
           System.out.println("onTestFailure");
     }
     @Override
     public void onTestSkipped(ITestResult result) {
           // TODO Auto-generated method stub
           ITestListener.super.onTestSkipped(result);
           System.out.println("onTestSkipped");
     }
     @Override
     public void onTestFailedButWithinSuccessPercentage(ITestResult
result) {
           // TODO Auto-generated method stub
     ITestListener.super.onTestFailedButWithinSuccessPercentage(result
);
```

```
System.out.println("onTestFailedButWithinSuccessPercentage");
     @Override
     public void onTestFailedWithTimeout(ITestResult result) {
           // TODO Auto-generated method stub
           ITestListener.super.onTestFailedWithTimeout(result);
           System.out.println("onTestFailedWithTimeout");
     }
     @Override
     public void onStart(ITestContext context) {
           // TODO Auto-generated method stub
           ITestListener.super.onStart(context);
           System.out.println("onStart");
     }
     @Override
     public void onFinish(ITestContext context) {
           // TODO Auto-generated method stub
           ITestListener.super.onFinish(context);
           System.out.println("onFinish");
     }
}
                          Listener Sample Test
package testNG;
import org.testng.annotations.Test;
public class ListenerSampleTest {
     @Test
     public void first() {
           System.out.println("i am first test.....");
     }
}
```

XML File - Listener

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd" >

<suite name="Listener Test" verbose="2" parallel="methods" thread-count="2">
count="2">
<listeners>
</listeners>
</listeners>
</listeners>
<test name="Listener Test Cases">
<classes>
</classes>
</classes>
</classes>
</test>
</suite>
```