Listeners in TestNG

Interface ITestListeners

```
package listernersDemo;
import org.testng.ITestContext;
import org.testng.ITestListener;
import org.testng.ITestResult;
public class ItestListernerClass implements
ITestListener{
    @Override
    //Invoked each time before a test will be
invoked.
    public void onTestStart(ITestResult result) {
        System.out.println("Test has been Invoked");
    //Invoked each time a test succeeds.
    @Override
    public void onTestSuccess(ITestResult result) {
        System.out.println("Log: Test has been
successfull");
    }
   // Invoked each time a test fails.
    @Override
    public void onTestFailure(ITestResult result) {
        System.out.println("Log: Test has failed");
    }
    @Override
    public void onTestSkipped(ITestResult result) {
```

```
System.out.println(" Log: Test has been
skipped");
    }
    @Override
    public void onTestFailedWithTimeout(ITestResult
result) {
        System.out.println("Log: Test has been
failed due to timeout");
    }
// Invoked before running all the test methods
belonging to the classes inside the <test> tag
    // and calling all their Configuration methods.
    @Override
    public void onStart(ITestContext context) {
        System.out.println("The Main test has
started");
    }
    //Invoked after all the test methods belonging
to the classes inside the <test> tag have run
    // and all their Configuration methods have been
called.
    @Override
    public void onFinish(ITestContext context) {
        System.out.println("The Main test has
Completed");
package listernersDemo;
import org.openga.selenium.WebDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.testng.Assert;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
```

```
import org.testng.annotations.Listeners;
import org.testng.annotations.Test;
// @Listeners(ItestListernerClass.class)
public class TestMethodsdemo {
    public static WebDriver driver;
    @BeforeTest
    public void OpenBrowser()
        driver = new ChromeDriver();
    @AfterTest
    public void Closebrowser()
        driver.close();
    }
    @Test(priority='1')
    public void method1()
        driver.get("https://www.amazon.in/");
        System.out.println(driver.getTitle());
    // this will also pass
    @Test(priority='2')
    public void method2()
        WebDriver driver = new ChromeDriver();
driver.get("https://www.selenium.dev/downloads/");
        System.out.println(driver.getTitle());
```

```
} // This will pass
    @Test(priority='3')
    public void method3()
driver.get("https://www.selenium.dev/documentation/"
);
        String expectedtitle = "Selenium";
        String actualTitle = driver.getTitle();
Assert.assertEquals(actualTitle, expectedtitle); //
test will failed as titles will not match.
    //this test will fail due to assertion
    @Test(priority='4')
    public void method4()
driver.get("https://www.selenium.dev/projects/");
        System.out.println(driver.getTitle());
        Assert.assertTrue(false);
      // this will fail due to assertion
    //The maximum number of milliseconds this test
should take to complete.
    //If it hasn't returned after thistime, it will
be marked as a FAIL
    @Test(priority='5',timeOut = 1000)
    public void method5() throws
InterruptedException
```

```
Thread.sleep(3000); // wait for 3 sec, test
will not complete in given time
driver.get("https://www.selenium.dev/projects/");
     } // test will fail with timeout error
}
package listernersDemo;
import org.testng.annotations.AfterClass;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.Listeners;
import org.testng.annotations.Test;
public class Demo1 {
     // that means the connectDB() method will get executed as the first
method of this class
     // this method will be executed only once in the beginning
```

// this method will get executed before execution of any test method starts

```
@BeforeClass

public void connectDB()

{
    //code
}

// that means the closeDB() method will get executed as the last method of this class

// this method will be executed only once in the end

// this method will get executed after execution of all test method completes

@AfterClass

public void clossDB()
```

@BeforeMethod

//code

{

}

```
public void openbrowser()
     {
           // code
     }
     @AfterMethod
     public void closeBrowser()
     {
           // code
     }
     @Test(priority='1')
     public void method1()
     {
           System.out.println("Selenium Code");
     }
     // this method will not be executed
     @Test(priority='2', dependsOnMethods = {"method1"},
enabled=false)
     public void method2()
```

```
{
        System.out.println("Selenium Code number 2");
    }
}
_____
<!DOCTYPE suite SYSTEM</pre>
"https://testng.org/testng-1.0.dtd">
<suite name="TestNGRunner1" verbose="1">
    teners>
        <listener</pre>
class-name="listernersDemo.ItestListernerClass"></li
stener>
    </listeners>
 <test name="TestCycle-1">
   <classes >
      <class name="listernersDemo.TestMethodsdemo"/>
      <class name="listernersDemo.Demo1"/>
   </classes>
 </test>
  </suite>
```