There are two types of assertions in TestNG.

Hard Assertion

Soft Assertion

A hard assert throws an exception if an assertion fails and mark the test as failed and the test will be aborted.

But a soft assert won’t abort the test even if the assertion fails. It will continue to execute the test steps.

But in order to make a soft assert test case fail we have to add assertAll() at the end.

The following are the different methods under Assert.

AssertEquals

AssertNotEquals

AssertTrue

AssertFalse

AssertNull

AssertNotNull

Example:

**package** Selenium;

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

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

**import** org.openqa.selenium.firefox.FirefoxDriver;

**import** org.testng.Assert;

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

**import** org.testng.asserts.SoftAssert;

**public** **class** AssertsValidation {

@Test

**public** **void** checkone() {

System.*setProperty*("webdriver.gecko.driver", "C:\\BrowserDrivers\\geckodriver.exe");

WebDriver driver = **new** FirefoxDriver();

driver.manage().window().maximize();

driver.get("file:///D:/Selenium%20Course/Java/index.html");

String expheading = "practicing selenium";

String actheading = driver.findElement((By.*id*("heading"))).getText();

System.***out***.println("Actual Heading is "+actheading);

Assert.*assertEquals*(expheading, actheading);

driver.findElement(By.*id*("firstname")).sendKeys("subbu");

driver.findElement(By.*xpath*("//input[@color='red']")).sendKeys("selenium");

}

@Test

**public** **void** checktwo() {

System.*setProperty*("webdriver.gecko.driver", "C:\\BrowserDrivers\\geckodriver.exe");

WebDriver driver = **new** FirefoxDriver();

driver.manage().window().maximize();

driver.get("file:///D:/Selenium%20Course/Java/index.html");

String expheading = "practicing selenium";

String actheading = driver.findElement((By.*id*("heading"))).getText();

System.***out***.println("Actual Heading is "+actheading);

SoftAssert softAssert = **new** SoftAssert();

softAssert.assertEquals(expheading, actheading);

driver.findElement(By.*id*("firstname")).sendKeys("subbu");

driver.findElement(By.*xpath*("//input[@color='red']")).sendKeys("selenium");

softAssert.assertAll();

}

}