



# MUMBAI EDUCATIONAL TRUST

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M.C.A Semester – III

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<b>Module:</b>	4
<b>Date:</b>	11-11-2022

**Note:** Attach screen shot of **Default test.html** in each test case output.

**Q. 1)** Demonstrate using TestNG framework test case skip feature using Selenium webdriver.

**Source code:**

**DemoSkip.java**

```
package TestNG;

import org.testng.SkipException;
import org.testng.annotations.Test;

public class DemoSkip {
    @Test
    public void Login1() {
        System.out.println("Login1 check");
    }
    @Test
    public void Login2() {
        System.out.println("Login2 check");
        throw new SkipException("Login2 functionality is not available");
    }
    @Test
    public void Login3() {
        System.out.println("Login3 check");
    }
}
```



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```
}  
}
```

### Output:

```
Problems @ Javadoc Declaration Console X Results of running class DemoSk...  
<terminated> DemoSkip [TestNG] C:\Users\mcamock\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.j...  
[RemoteTestNG] detected TestNG version 7.4.0  
Login1 check  
Login2 check  
Login3 check  
PASSED: Login1  
PASSED: Login3  
SKIPPED: Login2  
org.testng.SkipException: Login2 functionality is not available  
    at TestNG.DemoSkip.Login2(DemoSkip.java:14)  
    at java.base/jdk.internal.reflect.DirectMethodHandleAc...  
    at java.base/java.lang.reflect.Method.invoke(Method.java...  
    at org.testng.internal.MethodInvocationHelper.invokeMe...  
    at org.testng.internal.TestInvoker.invokeMethod(TestIn...  
    at org.testng.internal.TestInvoker.invokeTestMethod(Te...  
    at org.testng.remote.AbstractRemoteTestNG.run(Abstra...  
    at org.testng.remote.RemoteTestNG.initAndRun(RemoteT...  
    at org.testng.remote.RemoteTestNG.main(RemoteTestNG...  
  
=====  
Default test  
Tests run: 3, Failures: 0, Skips: 1  
=====
```

```
=====  
Default suite  
Total tests run: 3, Passes: 2, Failures: 0, Skips: 1  
=====
```

Q. 2) Demonstrate using TestNG framework assert methods using Selenium webdriver.



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**Source code:**

**DemoAssert.java**

```
package TestNG;

import org.testng.Assert;
import org.testng.SkipException;
import org.testng.annotations.Test;

public class DemoAssert {
    @Test
    public void Login1() {
        System.out.println("Login1 check");
        Assert.assertEquals("abc", "abcd");
    }
    @Test
    public void Login2() {
        System.out.println("Login2 check");
    }
}
```

**OUTPUT:**



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```
Problems @ Javadoc Declaration Console × Results of running cl...
<terminated> DemoAssert [TestNG] C:\Users\mcamock\.p2\pool\plugins\org.eclipse.justj.openj
[[RemoteTestNG] detected TestNG version 7.4.0
Login1 check
Login2 check
PASSED: Login2
FAILED: Login1
java.lang.AssertionError: expected [abcd] but found [ab
    at org.testng.Assert.fail(Assert.java:99)
    at org.testng.Assert.failNotEquals(Assert.java:
    at org.testng.Assert.assertEqualsImpl(Assert.ja
    at org.testng.Assert.assertEquals(Assert.java:1
    at org.testng.Assert.assertEquals(Assert.java:6
    at org.testng.Assert.assertEquals(Assert.java:6
    at TestNG.DemoAssert.Login1(DemoAssert.java:11)
    at java.base/jdk.internal.reflect.DirectMethodH
    at java.base/java.lang.reflect.Method.invoke(Me
    at org.testng.internal.MethodInvocationHelper.i
    at org.testng.internal.TestInvoker.invokeMethod
    at org.testng.internal.TestInvoker.invokeTestMe
```

```
at org.testng.remote.AbstractRemoteTestNG.run(A
at org.testng.remote.RemoteTestNG.initAndRun(Re
at org.testng.remote.RemoteTestNG.main(RemoteTe

=====
Default test
Tests run: 2, Failures: 1, Skips: 0
=====

=====
Default suite
Total tests run: 2, Passes: 1, Failures: 1, Skips: 0
=====
```



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**Q. 3)** Demonstrate using TestNG framework assert method on <https://opensource-demo.orangehrmlive.com> welcome window after successful login using Selenium webdriver. Check the window title is “OrangeHRM” or not.

**SourceCode:-**

### AssertDemo.java

```
package TestNG;

import org.testng.annotations.Test;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.Assert;
import org.testng.annotations.AfterClass;
import org.testng.annotations.AfterSuite;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.BeforeSuite;

public class AssertDemoHrm {
    WebDriver wd;
    @Test
    public void f() {
    }
    @BeforeSuite
    public void OpenBrowser() {
        System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\chromedriver.exe");
        wd=new ChromeDriver();
        wd.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
        wd.manage().window().maximize();

        wd.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
    }
    @BeforeClass
    public void LoginOHM() {
```



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```
wd.findElement(By.name("username")).sendKeys("Admin");
wd.findElement(By.name("password")).sendKeys("admin123");
wd.findElement(By.cssSelector("button[type=submit]")).click();

}
@Test
public void OrangeHRM() {

String title = wd.getTitle();

System.out.println("Title" + title);
String etitle="OrangeHRM";
Assert.assertEquals(title,etitle);
}

@AfterClass
public void Logout() {

wd.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[2]/ul/li/span/p")).
click();
wd.findElement(By.linkText("Logout")).click();
}

@AfterSuite
public void CloseWD() {
wd.quit();

}

}
```

**Output:-**



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```
Console X
<terminated> AssertDemoHrm [TestNG] C:\Users\helpdesk\.p2\pool\plugins\org.eclipse.justj.openj
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for details.
ChromeDriver was started successfully.
Nov 07, 2022 12:27:04 PM org.openqa.selenium.remote.ProtocolHandshake:
INFO: Detected dialect: W3C
TitleOrangeHRM
PASSED: f
PASSED: OrangeHRM

=====
Default test
Tests run: 2, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
=====
```

**Q. 4)** Demonstrate using TestNG framework test case priority using Selenium webdriver.

**Source code:**

```
package TestNg;
```

```
import org.testng.annotations.Test;
```

```
public class TestPriority {
```

```
    @Test(priority = 1)
```

```
        public void login() {
            System.out.println("Login executed");
        }
```

```
    @Test(priority = 1)
        public void navigation() {
            System.out.println("Navigation executed");
        }
```

```
    @Test(priority = 3)
        public void logout() {
            System.out.println("Logout executed");
        }
}
```



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}

### Output:

```
Markers Properties Servers Data Source Explorer Snippets Console X Resu
<terminated> TestPriority [TestNG] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (12-Nov-2022, 10:24:19 pm
[RemoteTestNG] detected TestNG version 7.4.0
Login executed
Navigation executed
Logout executed
PASSED: login
PASSED: navigation
PASSED: logout

=====
Default test
Tests run: 3, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
=====
```

TestNG: Default test x +

File | D:\MCA-SEM3\STQA\_LAB\STQASelenium\STQASelenium\test-output\Default%20suite\Default%20test.html

Default test

Tests passed/Failed/Skipped:	3/0/0
Started on:	Sat Nov 12 22:24:26 IST 2022
Total time:	0 seconds (86 ms)
Included groups:	
Excluded groups:	

(Hover the method name to see the test class name)

PASSED TESTS			
Test method	Exception	Time (seconds)	Instance
login		0	TestNg TestPriority @65466a6a
Test class: TestNg TestPriority			
navigation		0	TestNg TestPriority @65466a6a
Test class: TestNg TestPriority			
logout		0	TestNg TestPriority @65466a6a
Test class: TestNg TestPriority			

Q. 5) Demonstrate using TestNG framework the mentioned navigation on <https://opensource-demo.orangehrmlive.com> welcome window after successful login using Selenium webdriver.





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Once user successfully login the dashboard is displayed. Perform automation on login, display PIM menu details, after a delay display Myinfo menu details, and successful logout from web app.

**Source code:**

**LoginOHMTest.java**

```
package TestNg;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterClass;
import org.testng.annotations.AfterSuite;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.Test;

public class LoginOHMTest {
    WebDriver wd;
    @Test
    public void f() {
    }
    @BeforeSuite
    public void OpenBrowser() {
        System.setProperty("webdriver.chrome.driver","D:\\MCA-
SEM3\\STQA_Programs\\drivers\\chromedriver.exe");
        wd=new ChromeDriver();
        wd.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
        wd.manage().window().maximize();

        wd.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
    }
    @BeforeClass
    public void LoginOHM() {

        wd.findElement(By.name("username")).sendKeys("Admin");
        wd.findElement(By.name("password")).sendKeys("admin123");
        wd.findElement(By.cssSelector("button[type=submit]")).click();
    }
}
```



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```
}

@Test(priority = 2)
public void Admin()
{

wd.findElement(By.xpath("//*[ @id=\"app\"]/div[1]/div[1]/aside/nav/div[2]/ul/li[1]/a/span"));
}
@Test(priority = 1)
public void PIM()
{
    wd.findElement(By.xpath("//*[ @id=\"app\"]/div[1]/div[1]/aside/nav/div[2]/ul/li[2]/a"));
}
@Test(priority = 3)
public void Leave()
{
    wd.findElement(By.xpath("//*[ @id=\"app\"]/div[1]/div[1]/aside/nav/div[2]/ul/li[3]/a"));
}

@AfterClass
public void LogOut() {

wd.findElement(By.xpath("//*[ @id=\"app\"]/div[1]/div[1]/header/div[1]/div[2]/ul/li/span/p")).click();
wd.findElement(By.linkText("Logout")).click();
}

@AfterSuite
public void CloseWD() {
wd.quit();

}

}
```

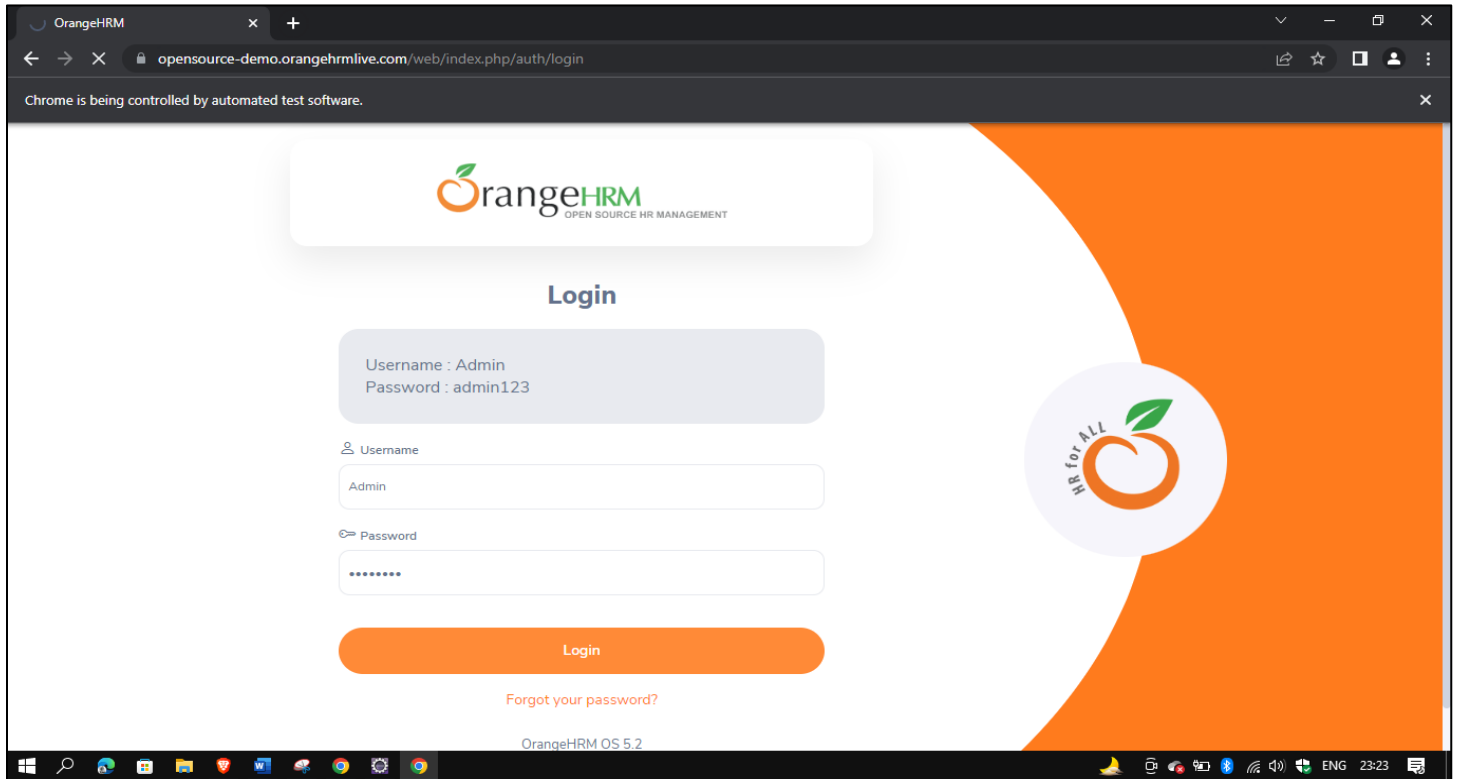
**Output:**



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```
Markers Properties Servers Data Source Explorer Snippets Console X Results of running class LoginC
<terminated> LoginOHMTest [TestNG] C:\Program Files\Java\jdk-17.0.1\bin\javaw.exe (12-Nov-2022, 11:23:39 pm - 11:23:52 pm)
[RemoteTestNG] detected TestNG version 7.4.0
Starting ChromeDriver 107.0.5304.62 (1eec40d3a5764881c92085aaee66d25075c159aa-r
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for sugges
ChromeDriver was started successfully.
Nov 12, 2022 11:23:42 PM org.openqa.selenium.remote.ProtocolHandshake createSes
INFO: Detected dialect: W3C
PASSED: f
PASSED: PIM
PASSED: Admin
PASSED: Leave

=====
Default test
Tests run: 4, Failures: 0, Skips: 0
=====

=====
Default suite
Total tests run: 4, Passes: 4, Failures: 0, Skips: 0
=====
```



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TestNG: Default test

File | D:/MCA-SEM3/STQA\_LAB/STQASelenium/STQASelenium/test-output/Default%20suite/Default%20test.html

Default test

Tests passed/Failed/Skipped:	4/0/0
Started on:	Sat Nov 12 23:23:47 IST 2022
Total time:	4 seconds (4394 ms)
Included groups:	
Excluded groups:	

(Hover the method name to see the test class name)

PASSED TESTS			
Test method	Exception	Time (seconds)	Instance
<b>f</b> Test class: TestNg.LoginOHMTest		0	TestNg.LoginOHMTest@5a63f509
<b>PIM</b> Test class: TestNg.LoginOHMTest		1	TestNg.LoginOHMTest@5a63f509
<b>Admin</b> Test class: TestNg.LoginOHMTest		0	TestNg.LoginOHMTest@5a63f509
<b>Leave</b> Test class: TestNg.LoginOHMTest		0	TestNg.LoginOHMTest@5a63f509

□ □ □ □ □ □ □