RYERSON UNIVERSITY

Faculty of Engineering, Architecture and Science

Department of Electrical and Computer Engineering

Course Number	891
Course Title	Software Testing and Quality Assurance
Semester/Year	W2023

Instructor	Dr. Reza Samavi

Lab No.	5

Lab Title	Web Application Testing TestNG and Selenium

Submission Date	March 9th, 2023
Due Date	March 10th, 2023

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By signing above you attest that you have contributed to this written lab report and confirm that all work you have contributed to this lab report is your own work.

Q1:

What is the output of this sample code? Provide a detailed description on your answer.

```java
1   import org.testng.annotations.Test;
2   public class TestNG_Priority_Annotations {
3           @Test()
4           public void c_method(){
5                   System.out.println("I'm in method C"); }
6           @Test()
7           public void b_method(){
8                   System.out.println("I'm in method B"); }
9           @Test(priority=6)
10          public void a_method(){
11                  System.out.println("I'm in method A"); }
12          @Test(priority=0)
13          public void e_method(){
14                  System.out.println("I'm in method E"); }
15          @Test(priority=6)
16          public void d_method(){
17                  System.out.println("I'm in method D"); }
18  }
```

If priority is set then it will run the test starting from priority 0 (highest priority) and then the succeeding numbers having the highest priority next, which in our case is 6. Additionally, if the same priority exists then it will pick based on the alphabetical order of the method name. Furthermore, the tests with no priority stated are simply also picked based on alphabetical order of the method name and are run even before tests stated to have some priority.

The flow of this sample code is:

1. Prints "I'm in method B"
2. Prints "I'm in method C"
3. Prints "I'm in method E"
4. Prints "I'm in method A"
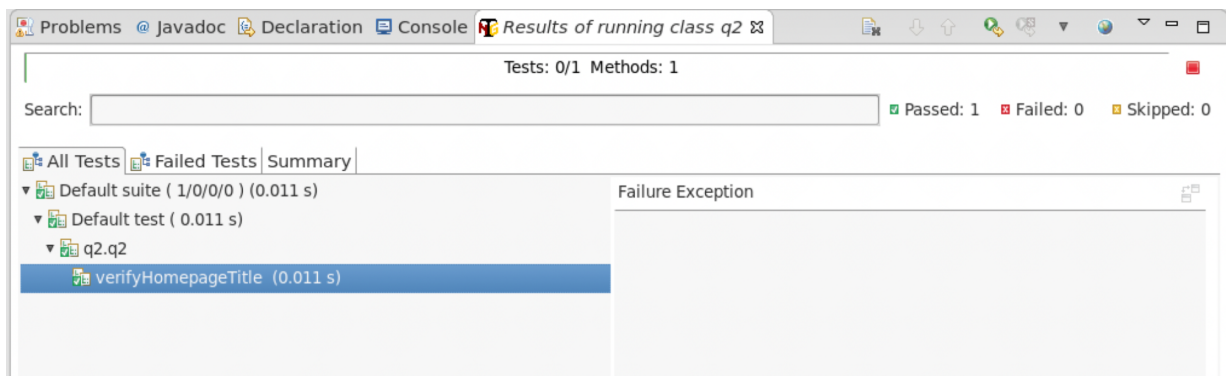5. Prints "I'm in method D"

Q2:

Console:

Retrieved web page title : Welcome: Mercury Tours
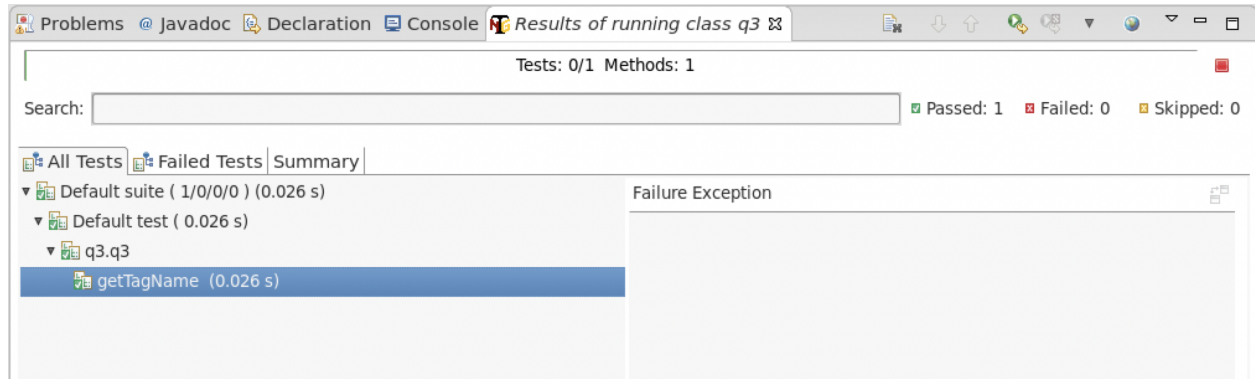
PASSED: verifyHomepageTitle

testNG:

Q3:

Console:

Retrieved tag name from web page : input

PASSED: getTagName

testNG:

Tests: 0/1 Methods: 1

Search: [   ]   ☑ Passed: 1   ☒ Failed: 0   ☐ Skipped: 0

All Tests | Failed Tests | Summary

▼ Default suite (1/0/0/0) (0.026 s)   Failure Exception
  ▼ Default test (0.026 s)
    ▼ q3.q3
      getTagName (0.026 s)

Q4:

Console:

```
PASSED: addName
PASSED: clickFourth
PASSED: clickSecond
```

testNG:

Tests: 0/1 Methods: 3

Search: [   ]   ☑ Passed: 3   ☒ Failed: 0   ☐ Skipped: 0

All Tests | Failed Tests | Summary

▼ Default suite (3/0/0/0) (0.775 s)   Failure Exception
  ▼ Default test (0.775 s)
    ▼ q4.q4
      addName (0.341 s)
      clickFourth (0.217 s)
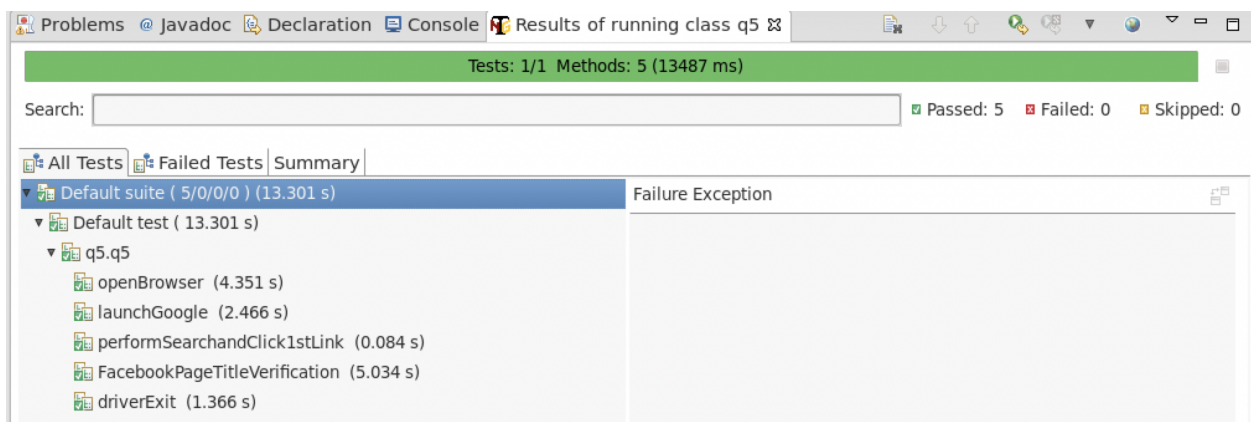   clickSecond (0.217 s)
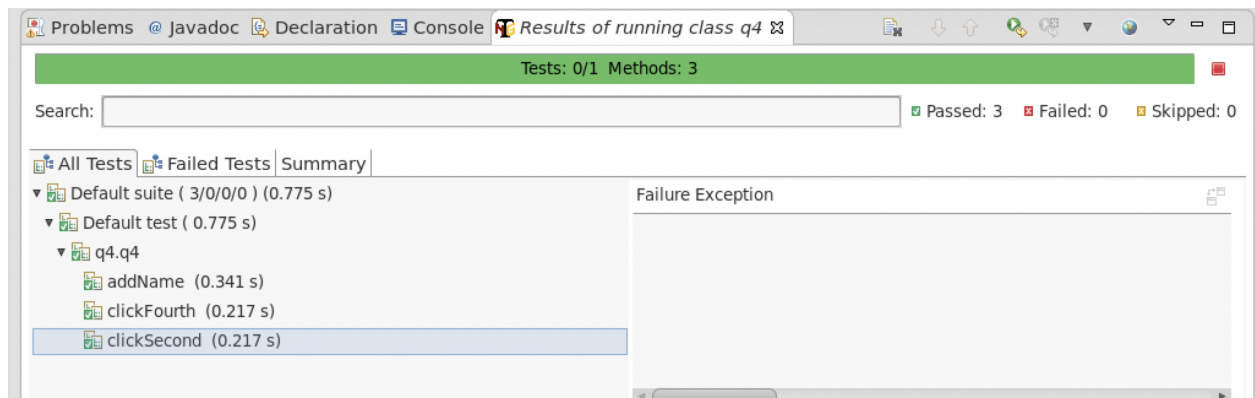
Q5:

Console:

```
PASSED: openBrowser
PASSED: launchGoogle
PASSED: performSearchandClick1stLink
PASSED: FacebookPageTitleVerification
PASSED: driverExit
```
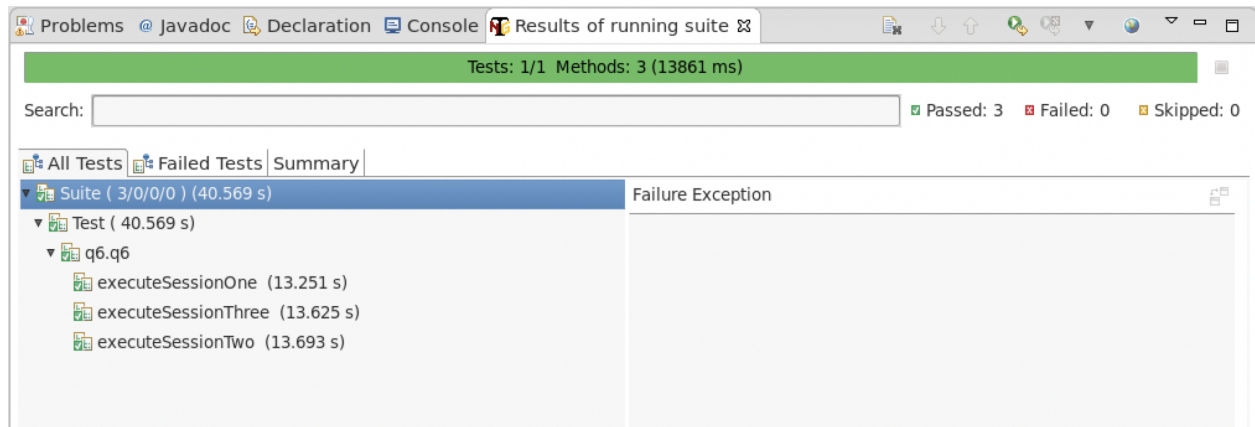
testNG:

Q6:

Console:

```
==================================================
Suite
Total tests run: 3, Failures: 0, Skips: 0
==================================================
```

testNG:

Tests: 1/1 Methods: 3 (13861 ms)

Search: [   ] ☑ Passed: 3 ☒ Failed: 0 ☐ Skipped: 0

All Tests | Failed Tests | Summary

	Failure Exception
▼ Suite (3/0/0/0) (40.569 s)	
▼ Test (40.569 s)	
▼ q6.q6	
executeSessionOne (13.251 s)	
executeSessionThree (13.625 s)	
executeSessionTwo (13.693 s)	

Q7:

Console:

```
PASSED: testLogin


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

testNG:

Problems @ Javadoc Declaration Console Results of running class q7

Tests: 1/1 Methods: 1 (15479 ms)

Search: [   ] ☑ Passed: 1 ☒ Failed: 0 ☐ Skipped: 0

All Tests | Failed Tests | Summary

	Failure Exception
▼ Default suite (1/0/0/0) (8.202 s)	
▼ Default test (8.202 s)	
▼ q7.q7	
testLogin (8.202 s)	