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Day 07: Class Exercise Lab:

Task 01: Maven Configuration

Create the Maven Project.

Add the Depnednecies of Selenium Web Driver and TestNG in POM.Xml

Perform the following Steps:

1. Open the browser
2. Launch the https://demo.wpeverest.com/user-registration/guest-registration-form/
3. Assert the title of the Page.

CODE:

```
package uth.Day7;

import org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;

import org.testng.annotations.BeforeMethod;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import org.testng.Assert;
import org.testng.annotations.AfterMethod;

public class CE_1 {
        WebDriver driver;
  @Test
  public void checktitle() {
          String expectedTitle = "Guest Registration Form – User Registration";
          String actualTitle = driver.getTitle();
          Assert.assertEquals(actualTitle, expectedTitle);
  }
  @BeforeMethod
  public void beforeMethod() {
           ChromeOptions co = new ChromeOptions();
                co.addArguments("--remote-allow-origin=*");
                WebDriverManager.chromedriver().setup();
                driver = new ChromeDriver(co);

driver.get("https://demo.wpeverest.com/user-registration/guest-registration-form/");
```

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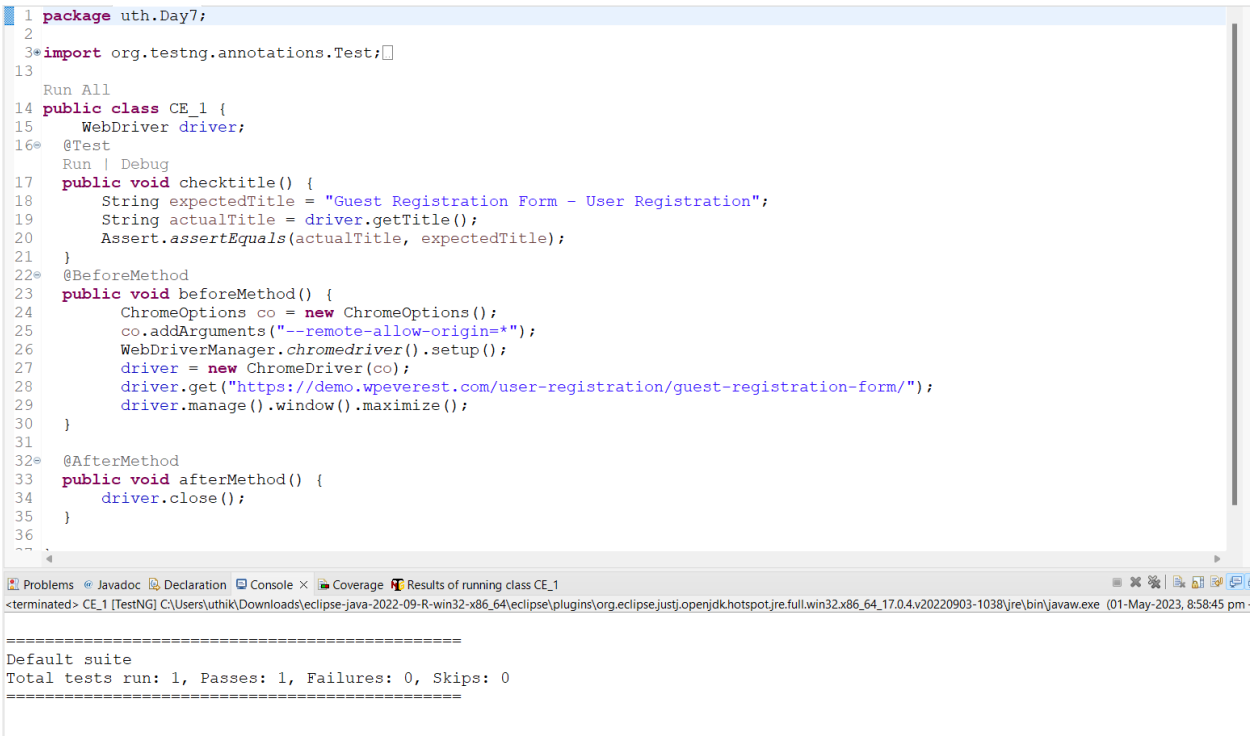
```
                driver.manage().window().maximize();
 }

 @AfterMethod
 public void afterMethod() {
         driver.close();
 }

}
```

OUTPUT:



```
package uth.Day7;

import org.testng.annotations.Test;

Run All
public class CE_1 {
    WebDriver driver;
  @Test
  Run | Debug
  public void checktitle() {
      String expectedTitle = "Guest Registration Form – User Registration";
      String actualTitle = driver.getTitle();
      Assert.assertEquals(actualTitle, expectedTitle);
  }
  @BeforeMethod
  public void beforeMethod() {
        ChromeOptions co = new ChromeOptions();
        co.addArguments("--remote-allow-origin=*");
        WebDriverManager.chromedriver().setup();
        driver = new ChromeDriver(co);
        driver.get("https://demo.wpeverest.com/user-registration/guest-registration-form/");
        driver.manage().window().maximize();
  }

  @AfterMethod
  public void afterMethod() {
      driver.close();
  }

}
```

Problems Javadoc Declaration Console × Coverage Results of running class CE_1

<terminated> CE_1 [TestNG] C:\Users\uthik\Downloads\eclipse-java-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe (01-May-2023, 8:58:45 pm

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

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Task 02: TestNg Annotation

Design and execute a calculator logic which checks all the mathematical operations.

1. Create a Calculator class containing mathematical methods like add, subtract, multiply, and divide methods.
2. Write the TestNg method to test the Calculator Class.
3. Use appropriate Assertion to validate the results.
4. Set the priority of test cases.
5. Execute the TestNG File.

CODE:

```
package uth.Day7;

import org.testng.annotations.Test;
import org.testng.annotations.BeforeMethod;
import org.testng.Assert;
import org.testng.annotations.AfterMethod;

public class CE_2 {
  @Test(priority=1)
  public void add() {
            int a=10,b=20,res=0;
            res=a+b;
            System.out.println(res);
            Assert.assertEquals(res, 30);
  }
  @Test(priority=3)
  public void sub() {
            int a=20,b=10,res=0;
            res=a-b;
            System.out.println(res);
            Assert.assertEquals(res, 10);
  }
  @Test(priority=2)
  public void division() {
            int a=20,b=10,res=0;
            res=a/b;
            System.out.println(res);
```

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```
		Assert.assertEquals(res, 2);
	}
	@Test(priority=4)
	public void mul() {
		int a=10,b=20,res=0;
		res=a*b;
		System.out.println(res);
		Assert.assertEquals(res, 200);
	}
	@BeforeMethod
	public void beforeMethod() {
	}

	@AfterMethod
	public void afterMethod() {
	}

}
```

```
1  package uth.Day7;
2
3  import org.testng.annotations.Test;
7
   Run All
8  public class CE_2 {
9    @Test(priority=1)
     Run | Debug
10   public void add() {
11       int a=10,b=20,res=0;
12       res=a+b;
13       System.out.println(res);
14       Assert.assertEquals(res, 30);
15   }
16   @Test(priority=3)
     Run | Debug
17   public void sub() {
18       int a=20,b=10,res=0;
19       res=a-b;
20       System.out.println(res);
21       Assert.assertEquals(res, 10);
22   }
23   @Test(priority=2)
     Run | Debug
24   public void division() {
25       int a=20,b=10,res=0;
26       res=a/b;
27       System.out.println(res);
28       Assert.assertEquals(res, 2);
```

```
Problems  Javadoc  Declaration  Console ×  Coverage  Results of running class CE_2
<terminated> CE_2 [TestNG] C:\Users\uthik\Downloads\eclipse-java-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe  (01-May-2023, 9:03:06 pm
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
30
2
10
200
```

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

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Task 03: TestNg Annotation

- Create the TestNg File.
- Keep the below commands under the BeforeMethod
  - Open the Page: https://opensource-demo.orangehrmlive.com/web/index.php/auth/login
  - Maximize the Screen.
- Keep the below commands under the Test.
  - Enter the Username and Password.
  - Click Login.
  - Validate the User is successfully logged in.
- Keep the below commands in AfterMethod
  - Close the browser.

CODE:

```
package uth.Day7;

import org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;

import org.testng.annotations.BeforeMethod;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import org.testng.Assert;
import org.testng.annotations.AfterMethod;

public class CE_3 {
        WebDriver driver;
  @Test
  public void checklogin() throws InterruptedException {
          WebElement username = driver.findElement(By.name("username"));
     username.sendKeys("Admin");
     WebElement passwordInput = driver.findElement(By.name("password"));
     passwordInput.sendKeys("admin123");

     WebElement loginButton =
driver.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div/div[1]/div/div[2]/div[2]/form/div[3]/button"))
;
```

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```
    loginButton.click();

    Thread.sleep(4000);
    WebElement msg =
driver.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[1]/span/h6"));
    String messageText = msg.getText();
    Assert.assertEquals(messageText,"Dashboard");
 }
 @BeforeMethod
 public void beforeMethod() throws InterruptedException {

        ChromeOptions co = new ChromeOptions();
        co.addArguments("--remote-allow-origin=*");
        WebDriverManager.chromedriver().setup();
    driver = new ChromeDriver(co);
        driver.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
        driver.manage().window().maximize();
        Thread.sleep(4000);
 }

 @AfterMethod
 public void afterMethod() {
        driver.close();
 }

}
```

OUTPUT:

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```java
package uth.Day7;

import org.testng.annotations.Test;

Run All
public class CE_3 {
    WebDriver driver;
  @Test
  Run | Debug
  public void checklogin() throws InterruptedException {
      WebElement username = driver.findElement(By.name("username"));
      username.sendKeys("Admin");
      WebElement passwordInput = driver.findElement(By.name("password"));
      passwordInput.sendKeys("admin123");

      WebElement loginButton = driver.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div/div[1]/div/div[2]/div[2]/form/div[
      loginButton.click();

      Thread.sleep(4000);
      WebElement msg = driver.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[1]/span/h6"));
      String messageText = msg.getText();
      Assert.assertEquals(messageText,"Dashboard");
  }
  @BeforeMethod
  public void beforeMethod() throws InterruptedException {

      ChromeOptions co = new ChromeOptions();
      co.addArguments("--remote-allow-origin=*");
      WebDriverManager.chromedriver().setup();
```

Problems Javadoc Declaration Console Coverage Results of running class CE_3

<terminated> CE_3 [TestNG] C:\Users\uthik\Downloads\eclipse-java-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe (01-May-2023, 9:05:48 pm

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

Task 04: TestNg Annotation

- Create the TestNg File.
- URL: https://opensource-demo.orangehrmlive.com/web/index.php/auth/login
- Create the below testcases under the Test annotation
  - TestCase1: Check Login Page is loaded Successfully.
  - TestCase2: Check Logout is working fine.
- Use depends on attribute to make the Test case2 is depends on the TestCase1.

CODE:

```
package uth.Day7;

import org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
```

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```
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import org.testng.Assert;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;

public class CE_4 {
        WebDriver driver;

  @Test
  public void login() throws InterruptedException {
          WebElement username = driver.findElement(By.name("username"));
     username.sendKeys("Admin");
     WebElement passwordInput = driver.findElement(By.name("password"));
     passwordInput.sendKeys("admin123");

     WebElement loginButton =
driver.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div/div[1]/div/div[2]/div[2]/form/div[3]/button"))
;
     loginButton.click();

     Thread.sleep(4000);
     WebElement msg =
driver.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[1]/span/h6"));
     String messageText = msg.getText();
     Assert.assertEquals(messageText,"Dashboard");
  }
  @Test(dependsOnMethods = "login")
  public void logout() throws InterruptedException {

          WebElement probutton =
driver.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[2]/ul/li/span/img"));
     probutton.click();
     WebElement logoutButton =
driver.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[2]/ul/li/ul/li[4]/a"));
     logoutButton.click();

     Thread.sleep(4000);
     WebElement msg =
driver.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div/div[1]/div/div[2]/h5"));
     String messageText = msg.getText();
     Assert.assertEquals(messageText,"Login");
  }
  @BeforeClass
```

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```
public void beforeMethod() throws InterruptedException {

        ChromeOptions co = new ChromeOptions();
        co.addArguments("--remote-allow-origin=*");
        WebDriverManager.chromedriver().setup();
    driver = new ChromeDriver(co);
        driver.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
        driver.manage().window().maximize();
        Thread.sleep(4000);
}

@AfterClass
public void afterMethod() {
        driver.close();
}

}
```

OUTPUT:

```
1  package uth.Day7;
2
3  import org.testng.annotations.Test;
15
   Run All
16 public class CE_4 {
17     WebDriver driver;
18
19   @Test
     Run | Debug
20   public void login() throws InterruptedException {
21       WebElement username = driver.findElement(By.name("username"));
22       username.sendKeys("Admin");
23       WebElement passwordInput = driver.findElement(By.name("password"));
24       passwordInput.sendKeys("admin123");
25
26       WebElement loginButton = driver.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div/div[1]/div/div[2]/div[2]/form/div[
27       loginButton.click();
28
29       Thread.sleep(4000);
30       WebElement msg = driver.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[1]/span/h6"));
31       String messageText = msg.getText();
32       Assert.assertEquals(messageText,"Dashboard");
33   }
34   @Test(dependsOnMethods = "login")
     Run | Debug
35   public void logout() throws InterruptedException {
36
37       WebElement probutton = driver.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[2]/ul/li/span/i
```

```
Problems  Javadoc  Declaration  Console ×  Coverage  Results of running class CE_4
<terminated> CE_4 [TestNG] C:\Users\uthik\Downloads\eclipse-java-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe  (01-May-2023, 9:09:15 pm

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

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Task 05: TestNg Annotation-Group By

- Create the TestNg File.
- **Test Case 01** - Open Godaddy.com and Validate it's Page title.
- Steps to Automate:

    1. Launch browser of your choice say., Firefox, chrome etc.
    2. Open this URL - https://www.godaddy.com/
    3. Maximize or set size of browser window.
    4. Get Title of page and validate it with expected value.
    4. Get URL of current page and validate it with expected value.
    5. Close browser.

- **Test Case 02**- Open Godaddy.com and click on 'Domain Name Search'
- Steps to Automate:
  1. Launch browser of your choice like, firefox, chrome etc., using selenium webdriver.
  2. Open website url - https://godaddy.com/
  3. Maximize browser window.
  4. Set timeout using implicit wait command of Selenium Webdriver.
  5. Click on the first menu link, which is 'Domains'. It will open up a sub-menu, click on the 'Domain Name Search' link from the sub-menu.
- **Test Case 03**- Open Godaddy.com and click on 'Domain Name Search'
- Steps to Automate:

    1.Launch browser of your choice like, firefox, chrome etc., using selenium webdriver.
    2. Open website url - https://godaddy.com/
    3. Maximize browser window.
    4. Set timeout using implicit wait command of Selenium Webdriver.

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5. Click on the first menu link, which is 'Domains'. It will open up a sub-menu, click on the 'Domain Name Search' link from the sub-menu.

6. Get the value of title of 'Domain Name Search' page using Selenium Webdriver's command in your script and print it.

7. We'll match value fetched in step 7 with expected value, if it's matched then proceed to next step either failed the test case.

8. Verify that search box is present on the page and it's enabled by using selenium commands.

9. Verify that "Buy It" button is available along with search box.

10. Enter some test value in the search box, like "mydomain" and click on "Buy It" button.

11. If domain is available then verify that "Add to Cart" button is present alongside domain name.

12. Verify that price of the domain is also displaying alongside domain name.

Requirements to met:

1. Create the three tests
2. Group the Testcase01 as SmokeTest
3. Group TestCase02 and Testcase 03 as the Regression TestCase
4. Execute as the TestNG.xml File

CODE :

```
package uth.day7;

import org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;

import org.testng.annotations.BeforeMethod;
```

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```
import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.chrome.ChromeOptions;

import org.testng.Assert;

import org.testng.annotations.AfterMethod;

public class CE_5 {

        WebDriver driver;

  @Test(groups="SmokeTest")

  public void validate() {

            ChromeOptions co = new ChromeOptions();

            co.addArguments("--remote-allows-origins=*");

            WebDriverManager.chromedriver().setup();

            driver = new ChromeDriver(co);

            driver.get("https://www.godaddy.com/");

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

            String actualTitle = driver.getTitle();

            String expectedTitle = "Domain Names, Websites, Hosting & Online Marketing Tools -
GoDaddy IN";

            Assert.assertEquals(actualTitle, expectedTitle);

            String actualUrl = driver.getCurrentUrl();

            String expectedUrl = "https://www.godaddy.com/en-in";

            Assert.assertEquals(actualUrl, expectedUrl);
```

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```
 }
 @Test(groups="RegressionTestCase")
 public void  search() throws InterruptedException
 {
        ChromeOptions co = new ChromeOptions();
        co.addArguments("--remote-allows-origins=*");
        WebDriverManager.chromedriver().setup();
        driver = new ChromeDriver(co);
        driver.get("https://www.godaddy.com/");
        driver.manage().window().maximize();
        Thread.sleep(3000);
driver.findElement(By.xpath("/html/body/header/div/section/div/div[1]/nav/div[2]/div[1]/ul/li[1]/button")).click();
        Thread.sleep(3000);
        driver.findElement(By.linkText("Domain Name Search")).click();;
 }
 @Test(groups="RegressionTestCase")
 public void case3() throws InterruptedException
 {
        ChromeOptions co = new ChromeOptions();
        co.addArguments("--remote-allows-origins=*");
        WebDriverManager.chromedriver().setup();
        driver = new ChromeDriver(co);
        driver.get("https://www.godaddy.com/");
        driver.manage().window().maximize();
```

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```
        Thread.sleep(3000);

driver.findElement(By.xpath("/html/body/header/div/section/div/div[1]/nav/div[2]/div[1]/ul/li[1]/button")).click();

        Thread.sleep(3000);

        driver.findElement(By.linkText("Domain Name Search")).click();

        Thread.sleep(3000);

        String title = driver.getTitle();

        System.out.println(title);

        Assert.assertEquals(title, "GoDaddy Domain Search - Buy and Register Available Domain Names");

                        Thread.sleep(5000);

                        boolean isSearchBoxPresent = driver.findElement(By.name("searchText")).isDisplayed();

                        Assert.assertEquals(isSearchBoxPresent, true);

  }

  @BeforeMethod

  public void beforeMethod() throws InterruptedException {

        //group panrapo thani thaniya pannu.....

  }

  @AfterMethod

  public void afterMethod() {

        driver.close();

  }

}
```

OUTPUT :

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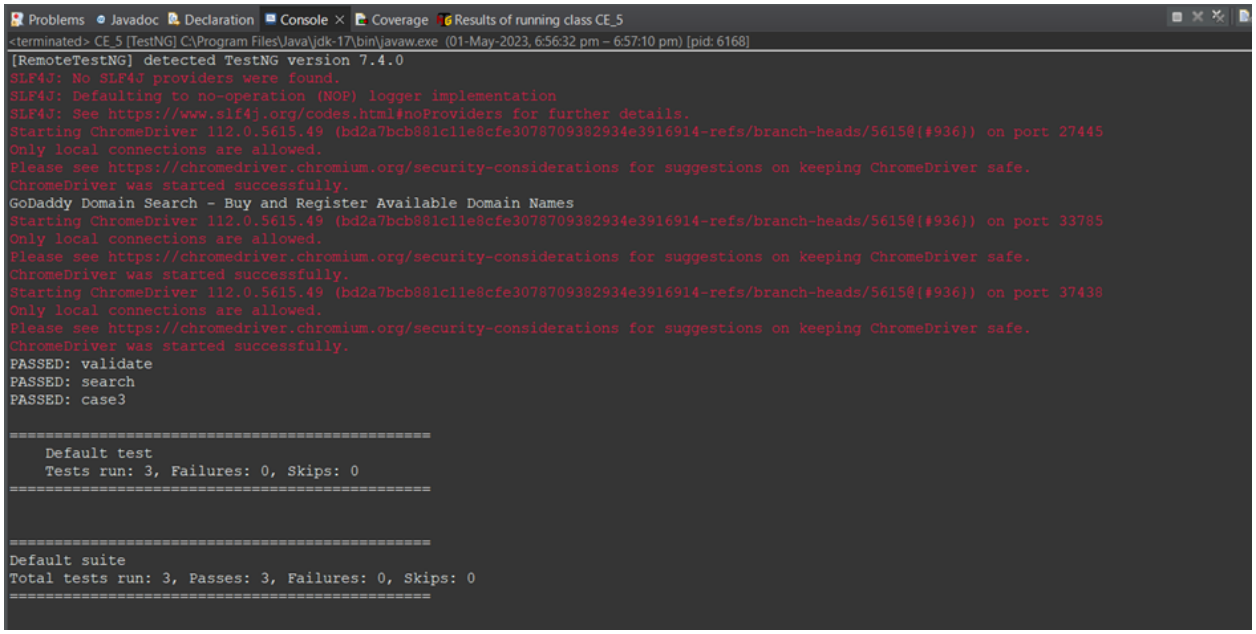

CODE (tetsng.xml) :

```
<?xml version="1.0" encoding="UTF-8"?>

<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">

<suite name="Suite">

        <groups>

        <run>

        <include name="RegressionTestCase"></include>

        </run>

        </groups>

  <test thread-count="5" name="Test">

        <classes>

        <class name="uth.day7.CE_3"/>

        <class name="uth.day7.CE_2"/>

        <class name="uth.day7.CE_1"/>

        <class name="uth.day7.CE_4"/>
```

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```
        <class name="uth.day7.CE_5"/>

        </classes>

  </test> <!-- Test -->

</suite> <!-- Suite -->
```

OUTPUT :