

Task 1:

```
File Edit Selection View Go Run Terminal Help
D7T1.java - Code - Visual Studio Code

D7T1.java X
selenium: > src > test > java > com > rithik > D7 > D7T1.java > D7T1 > @BeforeTest()

17 public class D7T1 {
18
19     WebDriver driver;
20
21     @Test
22     public void f() {
23         // Assert the title
24         String expectedTitle = "Guest Registration Form | User Registration";
25         String actualTitle = driver.getTitle();
26         Assert.assertEquals(expectedTitle, actualTitle);
27     }
28
29     @BeforeTest
30     public void beforeTest() {
31         // Driver setup
32         WebDriverManager.chromedriver().setup();
33         ChromeOptions co = new ChromeOptions();
34         co.addArguments("--remote-allow-origins=*");
35         driver = new ChromeDriver(co);
36
37         String url = "https://demo.wpewebtest.com/user-registration/guest-registration-form/";
38
39         // Open the URL
40         driver.get(url);
41
42         // Maximize
43         driver.manage().window().maximize();
44     }
45
46     @AfterTest
47     public void afterTest() {
48         // Close the browser
49     }
50 }

PROBLEMS | DEBUG CONSOLE | TEST RESULTS | TERMINAL | TRIPPLE
Filter (e.g. test, include) Launch Java Tests - $0y X

SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c168cfe3078709382934e3916914-refs/branch-heads/5615q[4936]) on port 30300
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.

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

Task 2:

```
File Edit Selection View Go Run Terminal Help
D7T2.java - Code - Visual Studio Code

D7T2.java X
selenium: > src > test > java > com > rithik > D7 > D7T2.java > D7T2 > @AfterTest()

21 public void run() {
22     Assert.assertEquals(0, Calculator.subtraction(a, b));
23 }
24
25 @Test(priority = 3)
26 public void mul() {
27     Assert.assertEquals(25, Calculator.multiplication(a, b));
28 }
29
30 @Test(priority = 4)
31 public void div() {
32     Assert.assertEquals(1, Calculator.division(a, b));
33 }
34
35 @BeforeTest
36 public void beforeTest() {
37     System.out.println("Performing basic Calculator operations");
38 }
39
40 @AfterTest
41 public void afterTest() {
42     System.out.println("All operations performed successfully");
43 }
44
45 }
46
47 // Defining a class for Calculator
48 class Calculator {
49     // Defining operations for all the operations
50 }

PROBLEMS | DEBUG CONSOLE | TEST RESULTS | TERMINAL | TRIPPLE
Filter (e.g. test, include) Launch Java Tests - $0y X

SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Performing basic Calculator operations
Testing addition
Testing subtraction
Testing multiplication
Testing division
All operations performed successfully

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

> Please start a debug session to evaluate expressions
```

Task 3:

The screenshot displays an IDE with a Selenium WebDriver test script. The code is as follows:

```

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.By;
import org.openqa.selenium.support.ui.WebDriverWait;

public class D7T3 {

    WebDriver driver;

    @Test
    public void f() throws InterruptedException {

        // Enter username
        WebElement username = driver.findElement(By.name("username"));
        username.sendKeys("Admin");

        // Enter password
        WebElement password = driver.findElement(By.name("password"));
        password.sendKeys("admin123");

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

        // Wait for 2 seconds
        Thread.sleep(2000);

        // Assert the URL
        String expectedURL = "https://opensource-demo.orangehrmlive.com/web/index.php/dashboard/index";
        String actualURL = driver.getCurrentUrl();
    }
}

```

The bottom panel shows the test results for 'Default Suite':

```

Default Suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0

```

Task 4:

The screenshot displays an IDE with a Selenium Java test script. The code is as follows:

```

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.annotations.Test;
import org.testng.annotations.BeforeMethod;
import org.testng.Assert;

public class D7T4 {

    WebDriver driver;

    @Test
    public void Login() throws InterruptedException {
        // Enter username
        WebElement username = driver.findElement(By.name("username"));
        username.sendKeys("Admin");

        // Enter password
        WebElement password = driver.findElement(By.name("password"));
        password.sendKeys("admin123");

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

        // Wait for 4 seconds
        Thread.sleep(4000);

        // Assert the URL
        String expectedURL = "https://opensource-demo.orangehrmlive.com/web/index.php/dashboard/index";
        String actualURL = driver.getCurrentUrl();

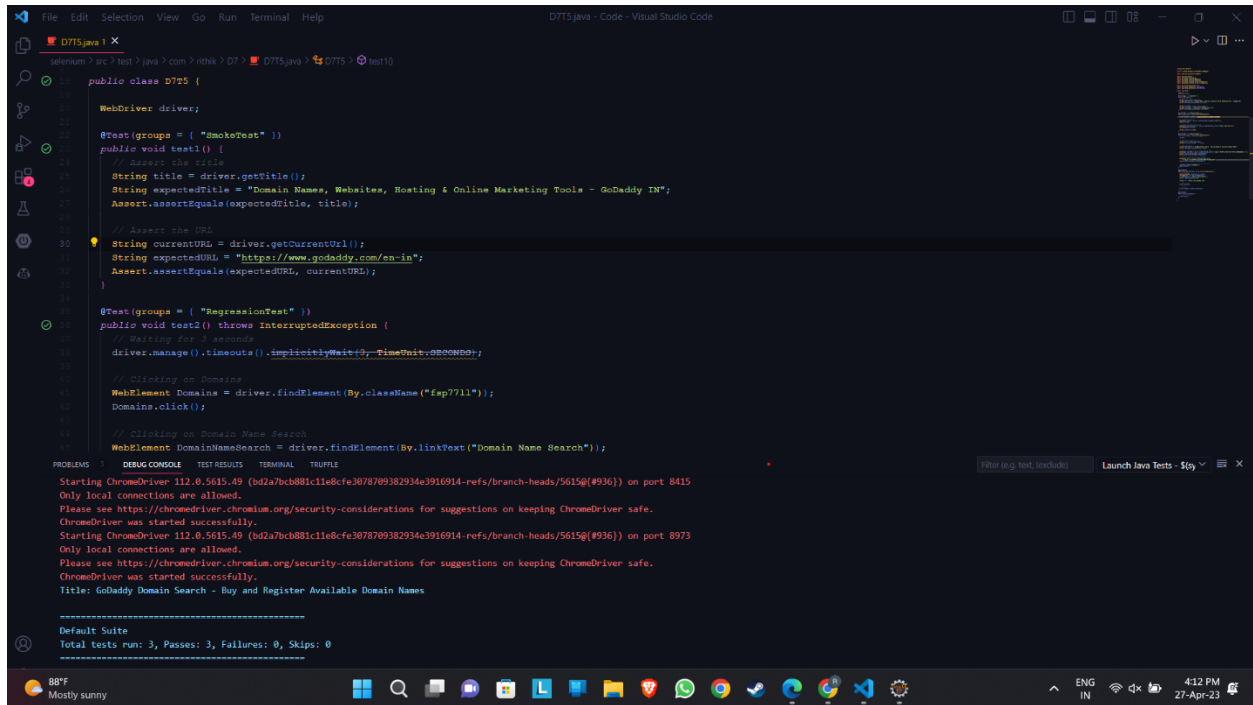
        Assert.assertEquals(expectedURL, actualURL);
    }
}

```

The bottom panel shows the test results for the 'Login' test. The test passed successfully, with the following details:

- Test Name: Login
- Test Status: Passed
- Test Results: 1 Passed, 0 Failed, 0 Skipped
- Test Log: The log shows the test execution steps, including finding elements, sending keys, clicking, and asserting the URL.

Task 5:



```
File Edit Selection View Go Run Terminal Help
D7T5.java - Code - Visual Studio Code

Selenium: > src > test > java > com > rthik > D7 > D7T5.java > D7T5 > test1()

11 public class D7T5 {
12
13     WebDriver driver;
14
15     @Test(groups = { "SmokeTest" })
16     public void test1() {
17         // Assert the title
18         String title = driver.getTitle();
19         String expectedTitle = "Domain Names, Websites, Hosting & Online Marketing Tools - GoDaddy IN";
20         Assert.assertEquals(expectedTitle, title);
21
22         // Assert the URL
23         String currentURL = driver.getCurrentUrl();
24         String expectedURL = "https://www.godaddy.com/en-in";
25         Assert.assertEquals(expectedURL, currentURL);
26     }
27
28     @Test(groups = { "RegressionTest" })
29     public void test2() throws InterruptedException {
30         // Waiting for 3 seconds
31         driver.manage().timeouts().implicitlyWait(3, TimeUnit.SECONDS);
32
33         // Clicking on Domains
34         WebElement Domains = driver.findElement(By.className("exp7711"));
35         Domains.click();
36
37         // Clicking on Domain Name Search
38         WebElement DomainNameSearch = driver.findElement(By.linkText("Domain Name Search"));
39     }
40 }

PROBLEMS 0 DEBUG CONSOLE TEST RESULTS TERMINAL OUTPUT
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c1e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936}) on port 8415
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c1e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936}) on port 8973
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Title: GoDaddy Domain Search - Buy and Register Available Domain Names

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