**SOFTWARE TESTING USING SELENIUM**

**IMAYESH M**

**727721EUIT055**

Day: 09 – Class Exercise Lab

**Task-01: TestNG.xml - Calculator**

**public** **class** D9\_T1 {

@Test(dataProvider = "dp")

**public** **void** add(Integer n, Integer n1) {

System.***out***.println(n+n1);

}

@Test(dataProvider = "dp")

**public** **void** sub(Integer n, Integer n1) {

System.***out***.println(n-n1);

}

@Test(dataProvider = "dp")

**public** **void** mul(Integer n, Integer n1) {

System.***out***.println(n\*n1);

}

@Test(dataProvider = "dp")

**public** **void** div(Integer n, Integer n1) {

System.***out***.println(n/n1);

}

@DataProvider

**public** Object[][] dp() {

**return** **new** Object[][] {

**new** Object[] {10,2},

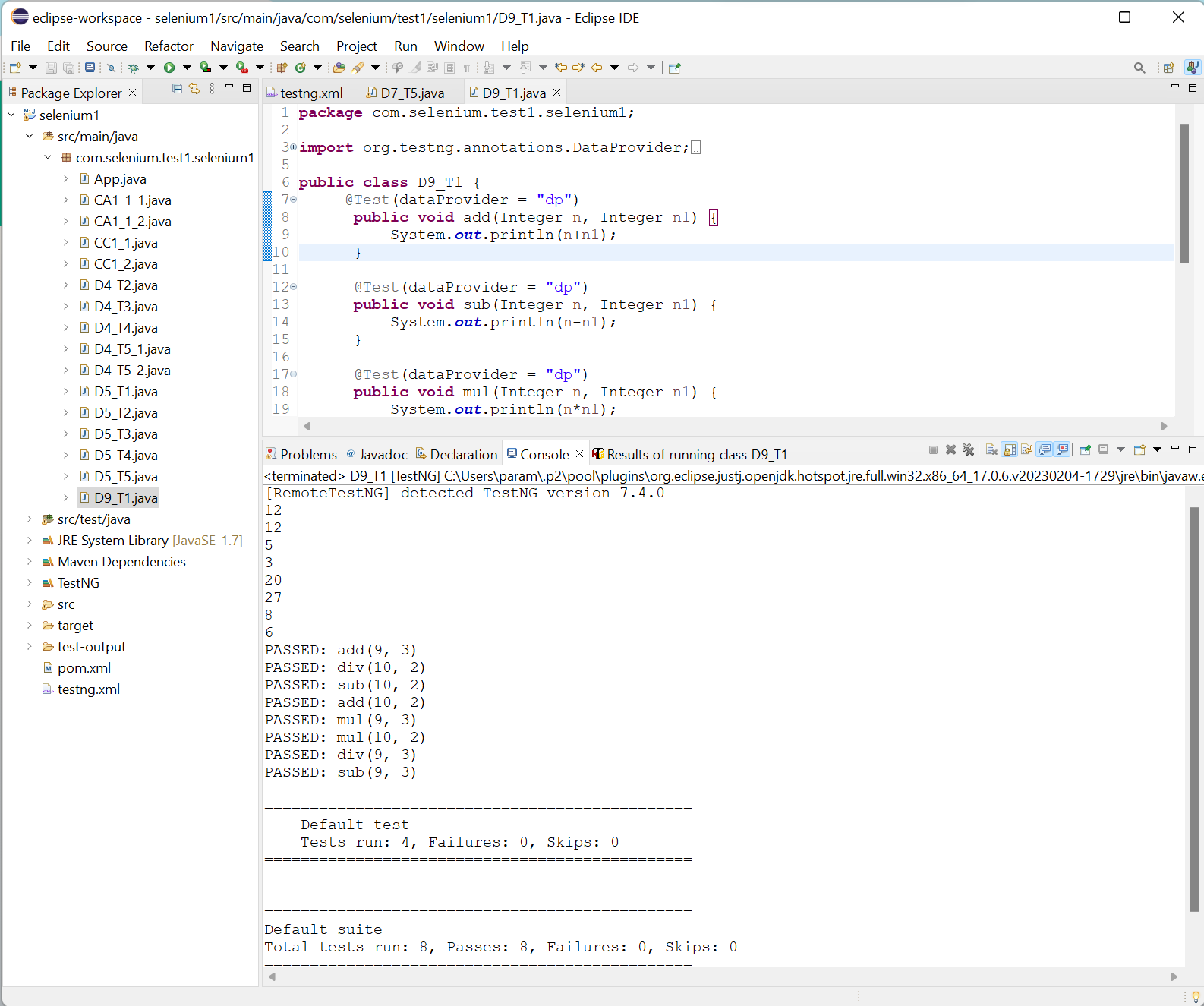
**new** Object[] {9,3},

};

}

}

Output:



**Task-02 and 03: TestNG.xml – Using Parallel Methods**

D9\_T2\_T3.java:

**public** **class** D9\_T2\_T3 {

@Test

**public** **void** f() {

WebDriverManager.*chromedriver*().setup();

WebDriver driver;

ChromeOptions co = **new** ChromeOptions();

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

driver=**new** ChromeDriver(co);

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

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

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

String extractedTitle=driver.getTitle();

*assertEquals*(actualTitle, extractedTitle);

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

String extractedURL=driver.getCurrentUrl();

*assertEquals*(actualURL, extractedURL);

System.***out***.println("Hello");

//driver.quit();

//driver.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);

}

@Test

**public** **void** f1() {

WebDriverManager.*chromedriver*().setup();

WebDriver driver;

ChromeOptions co = **new** ChromeOptions();

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

driver=**new** ChromeDriver(co);

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

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

driver.manage().timeouts().~~implicitlyWait~~(5, TimeUnit.***SECONDS***);

driver.findElement(By.*xpath*("//\*[@id=\"id-631b049a-e9c0-4d24-8710-c504745206dd\"]/div[2]/div[1]/ul/li[1]/button")).click();

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

//driver.quit();

}

}

TestNG.xml:

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

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

<suite name="Suite" parallel="methods" >

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

<classes>

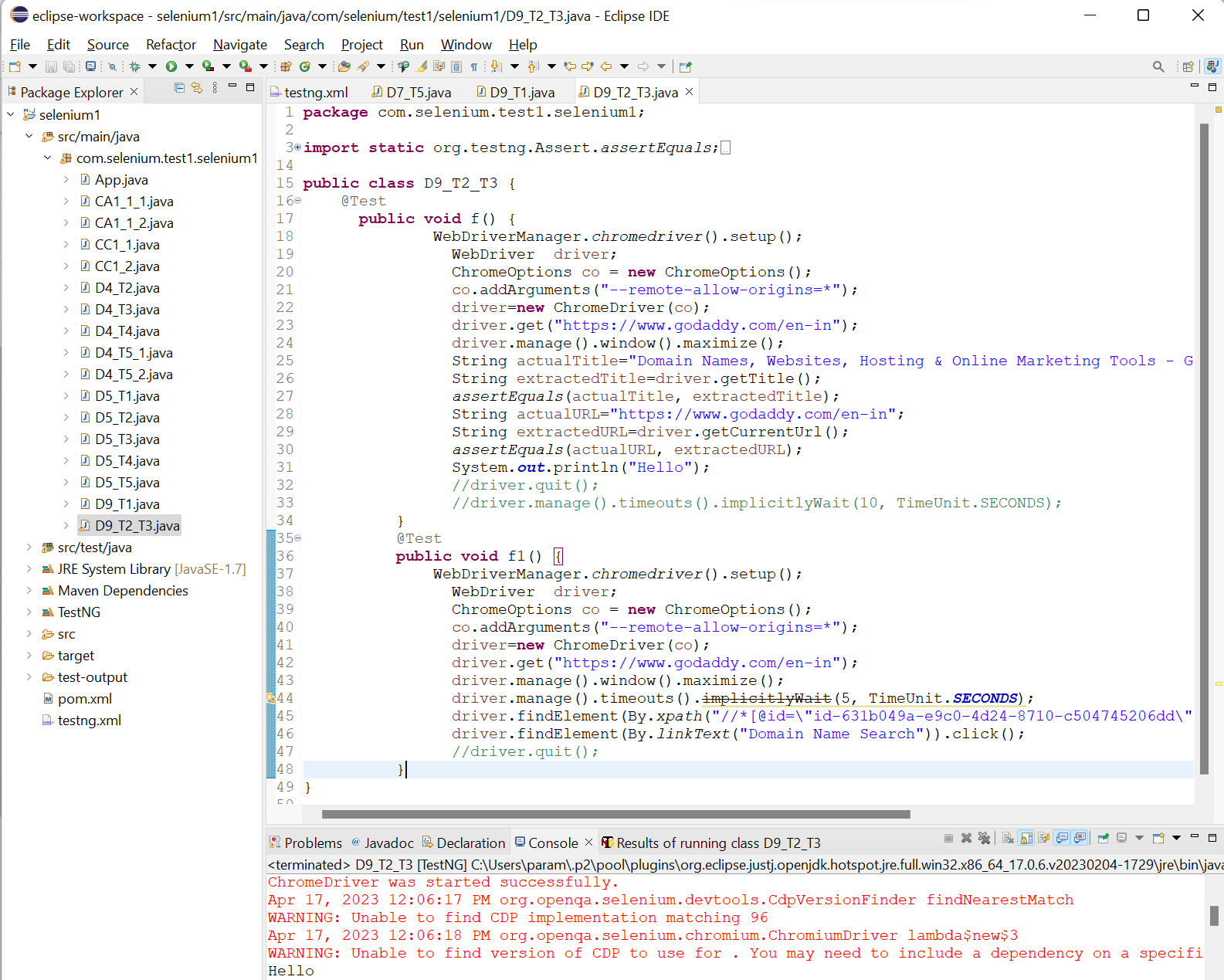
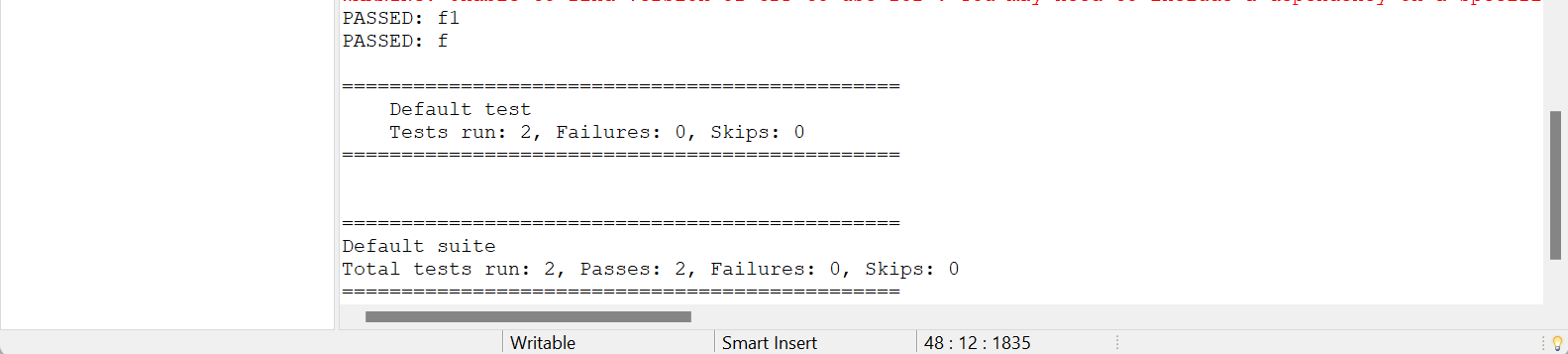
<class name=".D7\_T2\_T3"/>

</classes>

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

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

Output:

**Task-04: TestNG in Chrome & Edge**

D9\_T4.java:

**package** com.selenium.test1.selenium2;

**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.openqa.selenium.edge.EdgeDriver;

**import** org.testng.annotations.AfterMethod;

**import** org.testng.annotations.BeforeMethod;

**import** org.testng.annotations.Parameters;

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

**import** io.github.bonigarcia.wdm.WebDriverManager;

**public** **class** d7{

WebDriver driver;

@Test

**public** **void** f() **throws** Exception {

Thread.*sleep*(3000);

WebElement uname=driver.findElement(By.*name*("username"));

WebElement pwd=driver.findElement(By.*name*("password"));

WebElement submit=driver.findElement(By.*xpath*("//\*[@class='oxd-button oxd-button--medium oxd-button--main orangehrm-login-button']"));

uname.sendKeys("Admin");

pwd.sendKeys("admin123");

submit.click();

}

@Parameters("browser")

@BeforeMethod()

**public** **void** beforeMethod(String browser1) {

**if**(browser1.equals("chrome"))

{

WebDriverManager.*chromedriver*().setup();

ChromeOptions co = **new** ChromeOptions();

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

driver=**new** ChromeDriver(co);

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

String url="https://opensource-demo.orangehrmlive.com/web/index.php/auth/login";

driver.get(url);

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

}

**else** **if**(browser1.equals("edge"))

{

WebDriverManager.*edgedriver*().setup();

//FirefoxOptions co = new FirefoxOptions();

//co.addArguments("--remote-allow-origins=\*");

driver=**new** EdgeDriver();

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

String url="https://opensource-demo.orangehrmlive.com/web/index.php/auth/login";

driver.get(url);

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

}

}

@AfterMethod

**public** **void** afterMethod() {

driver.close();

}

}

TestNG.xml:

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

<suite parallel="false" name="Suite">

<parameter name="browser" value="edge" />

<test name="Test">

<classes>

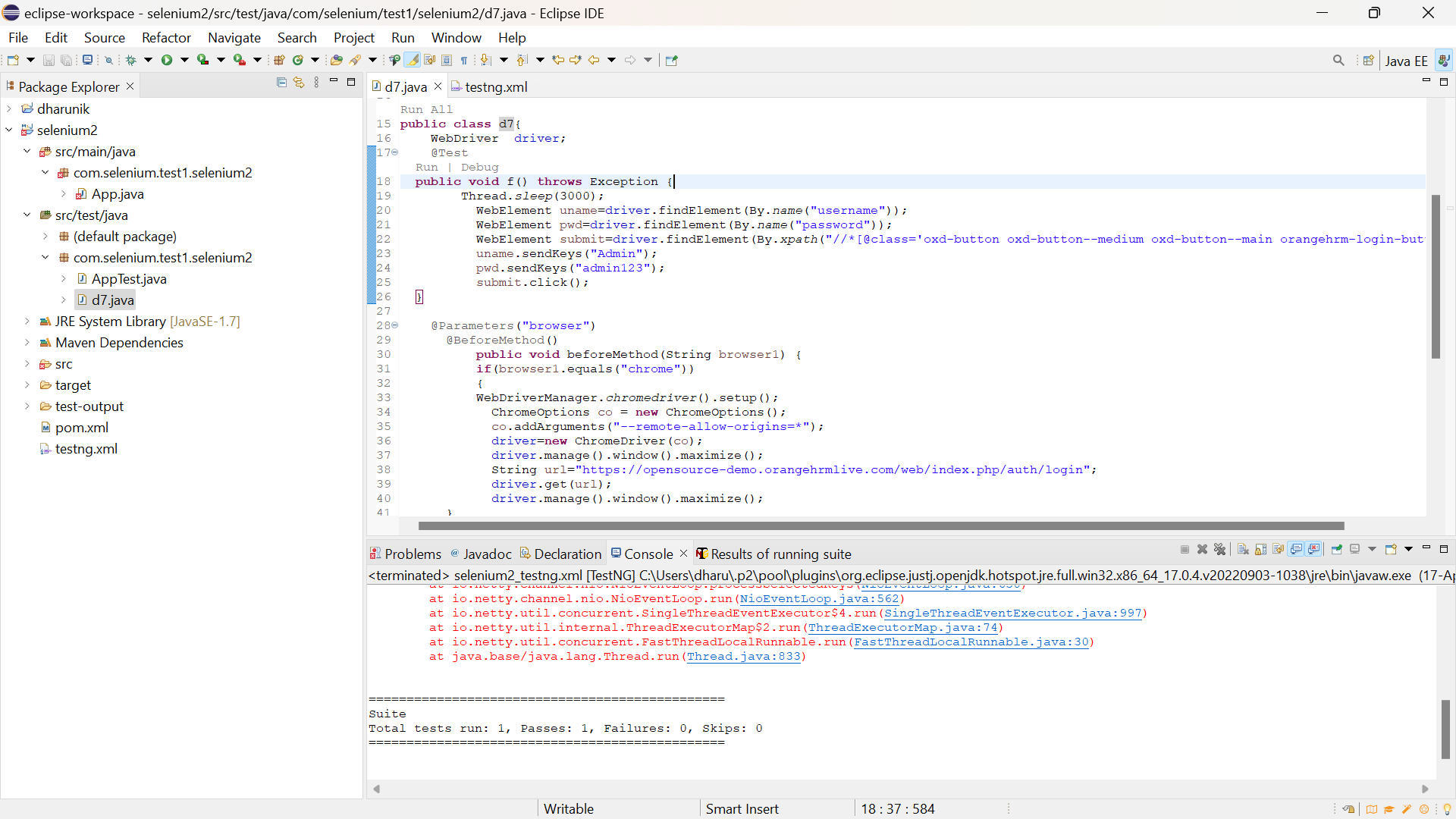
<class name="com.selenium.test1.selenium2.d7"/>

</classes>

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

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

Output:



**Task-05: TestNG using various Methods**

D9\_T5\_1.java:

**package** com.selenium.test1.selenium2;

**import** org.testng.ITestContext;

**import** org.testng.ITestListener;

**import** org.testng.ITestResult;

**public** **class** d7 **implements** ITestListener {

**public** **void** onTestStart(ITestResult result) {

// **TODO** Auto-generated method stub

System.***out***.println("on Test Start :"+result.getName());

}

**public** **void** onTestSuccess(ITestResult result) {

// **TODO** Auto-generated method stub

System.***out***.println("on Test success :"+result.getName());

}

**public** **void** onTestFailure(ITestResult result) {

// **TODO** Auto-generated method stub

System.***out***.println("on Test fail :"+result.getName()); }

**public** **void** onTestSkipped(ITestResult result) {

// **TODO** Auto-generated method stub

System.***out***.println("on Test skip :"+result.getName()); }

**public** **void** onTestFailedButWithinSuccessPercentage(ITestResult result) {

// **TODO** Auto-generated method stub

System.***out***.println("on Test fail :"+result.getName()); }

**public** **void** onTestFailedWithTimeout(ITestResult result) {

// **TODO** Auto-generated method stub

System.***out***.println("on Test fail :"+result.getName()); }

**public** **void** onStart(ITestContext context) {

// **TODO** Auto-generated method stub

System.***out***.println("on start"); }

**public** **void** onFinish(ITestContext context) {

// **TODO** Auto-generated method stub

System.***out***.println("on Test finish"); }

}

D9\_T5\_2.java:

**package** com.selenium.test1.selenium2;

**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.annotations.AfterMethod;

**import** org.testng.annotations.BeforeMethod;

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

**import** io.github.bonigarcia.wdm.WebDriverManager;

**public** **class** d9{

WebDriver driver;

@Test

**public** **void** f() **throws** Exception {

String url="https://opensource-demo.orangehrmlive.com/web/index.php/auth/login";

driver.get(url);

Thread.*sleep*(3000);

WebElement uname=driver.findElement(By.*name*("username"));

WebElement pwd=driver.findElement(By.*name*("password"));

WebElement submit=driver.findElement(By.*xpath*("//\*[@class='oxd-button oxd-button--medium oxd-button--main orangehrm-login-button']"));

uname.sendKeys("Suvitha");

pwd.sendKeys("12345");

submit.click();

String url1="https://opensource-demo.orangehrmlive.com/web/index.php/dashboard/index";

}

@BeforeMethod

**public** **void** beforeMethod() {

WebDriverManager.*chromedriver*().setup();

ChromeOptions co = **new** ChromeOptions();

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

driver=**new** ChromeDriver(co);

}

@AfterMethod

**public** **void** afterMethod() {

driver.close();

}

}

TestNG.xml:

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

<suite parallel="false" name="Suite">

<test name="Test">

<listeners>

<listener class-name="com.selenium.test1.selenium2.d7">

</listener>

</listeners>

<classes>

<class name="com.selenium.test1.selenium2.d9"/>

</classes>

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

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

Output:

