



MUMBAI EDUCATIONAL TRUST MET Institute of Computer Science



Software Testing And Quality Assurance Index

Sr No	Title of Practical	Date
1.	Implement Web Drivers on Chrome/Firefox Browser.	8/12/2023
2.	Implement the Program launching the browser by Web Driver Manager.	8/12/2023
3.	Implement the Program launching the browser by using setProperty () method.	8/12/2023
4.	Implement the different types of WebDriver Methods using selenium webdriver.	8/12/2023
5.	Implement the Browser Command and Navigate command.	8/12/2023
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7.	Implement the different types of WebDriver Methods using selenium webdriver.	11/12/2023
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9.	Demonstrate the CSS Selector Locator using selenium webdriver.	11/12/2023
10.	Demonstrate the Multiple window Handling using Selenium webdriver.	11/12/2023



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11.	Implement the different types of Locators (id, name, class, partial link text, link text etc) using Selenium webdriver.	11/12/2023
12.	Implement the Partial link text Locator using selenium webdriver.	13/12/2023
13.	Implement the Multiselect elements on the web page.	13/12/2023
14	Implements Explicit wait with the help of Selenium webdriver	13/12/2023
15	Implements Implicit wait with the help of Selenium webdriver.	13/12/2023
16	Demonstrate the Validation testing with the help of Alert and Button clicking using selenium webdriver.	13/12/2023
17	Implement Action Demo on https://opensource-demo.orangehrmlive.com/ using Selenium webdriver.	13/12/2023
18	Demonstrate using TestNG framework different annotations (before method, after method, before class, after class, before test, after test, before suite and after suite) using Selenium webdriver.	14/12/2023
19	Attach screenshot of Default test.html in test case output.	14/12/2023
20	Demonstrate using TestNG framework data provider annotation using Selenium webdriver.	14/12/2023
21	Demonstrate using TestNG framework data provider annotation for login process of https://opensource-demo.orangehrmlive.com/ using Selenium web driver. Try	14/12/2023



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	login with valid and invalid credentials and check the test results.	
22	Demonstrate using TestNG framework test case skip feature using Selenium webdriver.	14/12/2023
23	Demonstrate using TestNG framework assert methods using Selenium webdriver.	15/12/2023
24	Demonstrate using TestNG framework assert method on https://opensource-demo.orangehrmlive.com welcome window after successful login using Selenium webdriver. Check if the window title is "OrangeHRM" or not.	15/12/2023
25	Demonstrate using TestNG framework test case priority using Selenium webdriver.	15/12/2023
26	Demonstrate using TestNG framework the mentioned navigation on https://opensource-demo.orangehrmlive.com/ welcome window after successful login using Selenium webdriver. Once a user successfully logs in, 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.	15/12/2023
27	Demonstrate regression testing using TestNG framework. Use at least two classes e.g., ClassADemo and ClassBDemo to demonstrate regression testing by adding a few test cases in the existing test suite.	15/12/2023

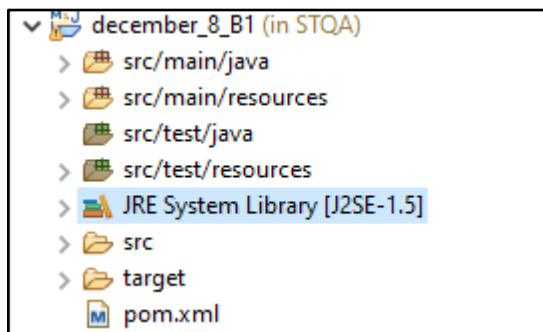


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Aim: Implement Web Drivers on Chrome/Firefox Browser.

Step 1



Step 2

pom.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```



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```
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>selenium_project</groupId>
  <artifactId>december_8_B1</artifactId>
  <version>0.0.1-SNAPSHOT</version>

  <dependencies>
  <!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->
  <dependency>
    <groupId>org.seleniumhq.selenium</groupId>
    <artifactId>selenium-java</artifactId>
    <version>3.141.59</version>
  </dependency>

  <!-- https://mvnrepository.com/artifact/io.github.bonigarcia/webdrivermanager -->
  <dependency>
    <groupId>io.github.bonigarcia</groupId>
    <artifactId>webdrivermanager</artifactId>
    <version>5.6.2</version>
  </dependency>

  </dependencies>
</project>
```

LaunchingBrowser.java

```
package selenium;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

import io.github.bonigarcia.wdm.WebDriverManager;

public class LaunchingBrowser {

    public static void main(String[] args)
    {
```



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WebDriver driver;

WebDriverManager.firefoxdriver().setup();

driver = new FirefoxDriver();

driver.get("http://www.met.edu/");

WebDriverManager.chromedriver().setup();

driver = new ChromeDriver();

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

}

}

Name: Yash Shashikant Patil

Roll No.: 1336



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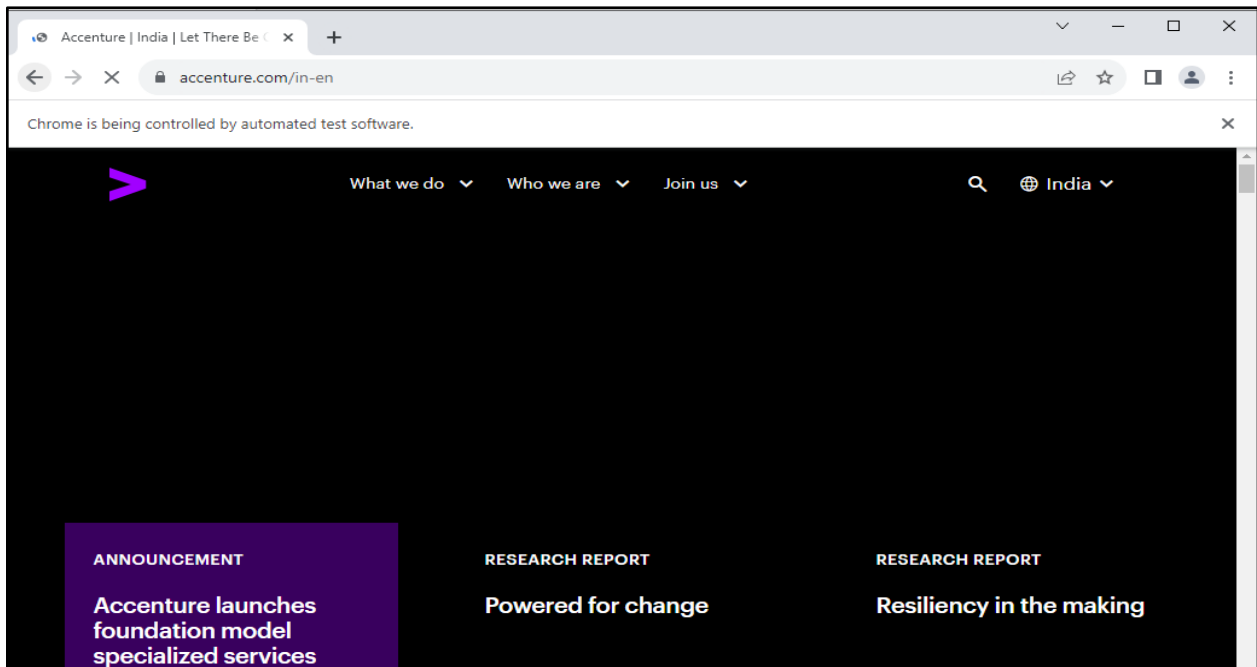
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Output:

Firefox:



Chrome:





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Aim: Implement the Program launching the browser by Web Driver Manager.

Code:

BaseTest.java

```
package selenium;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

import io.github.bonigarcia.wdm.WebDriverManager;

public class BaseTest {
    public static WebDriver driver;
    public static void launch(String browser) {
        if(browser.equals("chrome")) {
            WebDriverManager.chromedriver().setup();
            driver = new ChromeDriver();
        }
        else if (browser.equals("firefox")) {
            WebDriverManager.firefoxdriver().setup();
            driver = new FirefoxDriver();
        }
    }
    public static void navigateUrl(String url) {
        driver.get(url);
    }
}
```

TC_001.java

```
package selenium;

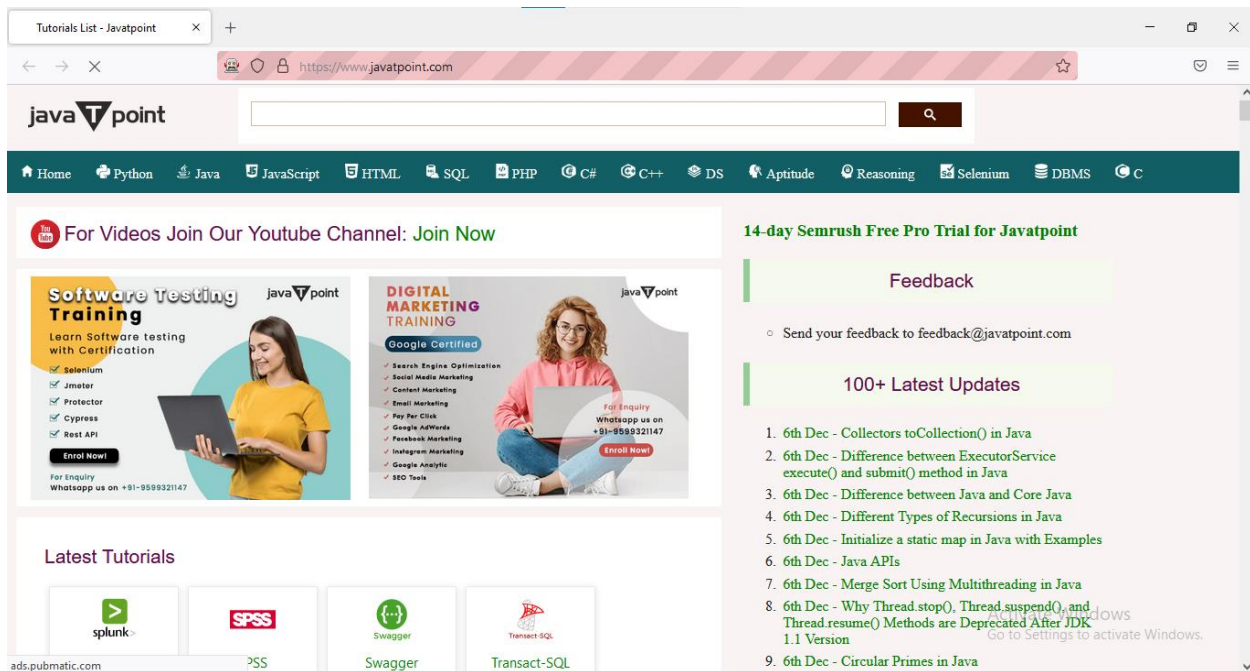
public class TC_001 extends BaseTest{
    public static void main(String[] args) {
        launch("firefox");
        navigateUrl("https://www.javatpoint.com");
    }
}
```




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Output:



TC_002.java

package selenium;

```
public class TC_002 extends BaseTest{
    public static void main(String[] args) {
        launch("chrome");
        navigateUrl("https://www.geeksforgeeks.org");
    }
}
```

Name: Yash Shashikant Patil

Roll No.: 1336



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Output:

The screenshot shows the homepage of geeksforgeeks.org. The browser address bar displays 'geeksforgeeks.org'. The website has a dark green header with navigation links: Courses, Tutorials, Jobs, Practice, and Contests. A search bar is located on the right side of the header. Below the header, a horizontal menu lists various topics: Trending Now, Data Structures, Algorithms, Foundational Courses, Data Science, Practice Problem, Python, Machine Learning, JavaScript, Java, C, C++, ReactJS, NodeJS, and Web Develop. The main content area features a large green banner with the text 'Hello, What Do You Want To Learn?'. Below this banner is a search bar with the text 'Must Do SDE S' and a 'Search' button. Under the search bar are three buttons: 'Applied Data Science', 'GATE: DS & AI', and 'DSA: Basic To Advanced Course'. Below these buttons are three white cards with orange, green, and blue headers respectively. The first card is titled 'Read' and features an icon of a book. The second card is titled 'Practice' and features an icon of a document with a checkmark. The third card is titled 'Learn' and features an icon of a video player. Each card contains a brief description of the content. At the bottom of the page, there is a dark green footer with a cookie notice and a 'Got It !' button.

geeksforgeeks.org

Guest (2)

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Read

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Explore Practice Problems

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An interview-centric course designed to prepare you for the role of SDE for bot...

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Got It !



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Aim: Implement the Program launching the browser by using `setProperty()` method.

Code:

SetProperty.java

```
package selenium;

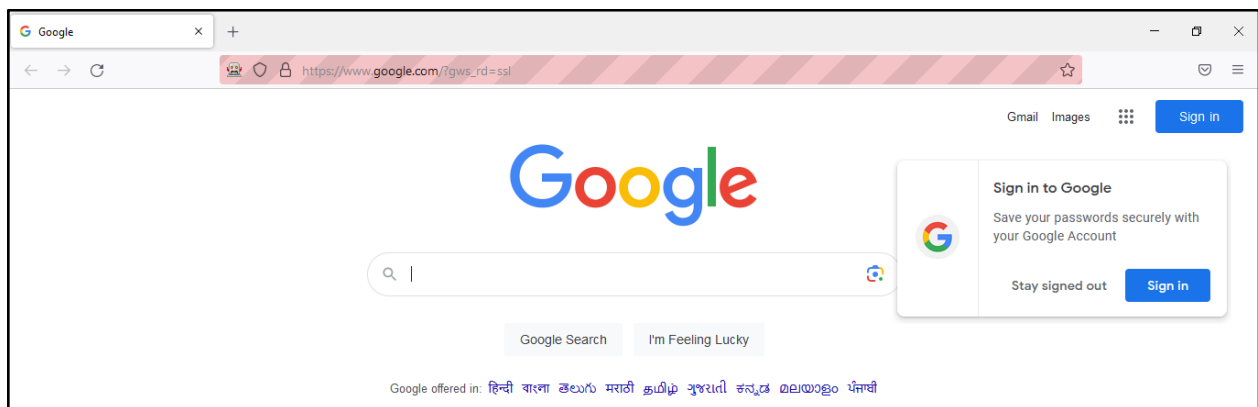
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

public class SetProperty {

    public static void main(String[] args)
    {
        System.setProperty("webdriver.gecko.driver", "C:\\Selenium\\geckodriver.exe");
        WebDriver wd = new FirefoxDriver();
        wd.get("http://google.com");
    }
}
```

Output:

Firefox





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Aim: Implement the different types of WebDriver Methods using selenium webdriver.

WebDriverMethod.java

```
package selenium;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

import io.github.bonigarcia.wdm.WebDriverManager;

public class WebDriverMethod {

    public static WebDriver driver;
    public static void launch(String browser)
    {
        if(browser.equals("chrome"))
        {
            WebDriverManager.chromedriver().setup();
            driver = new ChromeDriver();
        }
        else if(browser.equals("firefox"))
        {
            WebDriverManager.firefoxdriver().setup();
            driver = new FirefoxDriver();
        }
    }
    public static void navigateUrl(String url)
    {
        driver.get(url);
    }
}
```

WM_001.java



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```
package selenium;
```

```
public class WM_001 extends WebDriverMethod {  
  
    public static void main(String[] args) throws Exception  
    {  
        launch("firefox");  
        navigateUrl("https://www.met.edu");  
        driver.manage().window().maximize();  
  
        String title = driver.getTitle();  
        System.out.println(title);  
  
        String url = driver.getCurrentUrl();  
        System.out.println(url);  
  
        driver.manage().deleteAllCookies();  
  
        driver.navigate().back();  
  
        Thread.sleep(3000);  
  
        driver.navigate().forward();  
  
        Thread.sleep(3000);  
  
        driver.navigate().refresh();  
  
        driver.close();  
  
        driver.quit();  
    }  
}
```

WM_002.java

```
package selenium;
```

```
public class WM_002 extends WebDriverMethod{
```

Name: Yash Shashikant Patil

Roll No.: 1336



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```
public static void main(String[] args)
{
    launch("chrome");
    navigateUrl("http://www.google.com");
}
}
```

Name: Yash Shashikant Patil

Roll No.: 1336

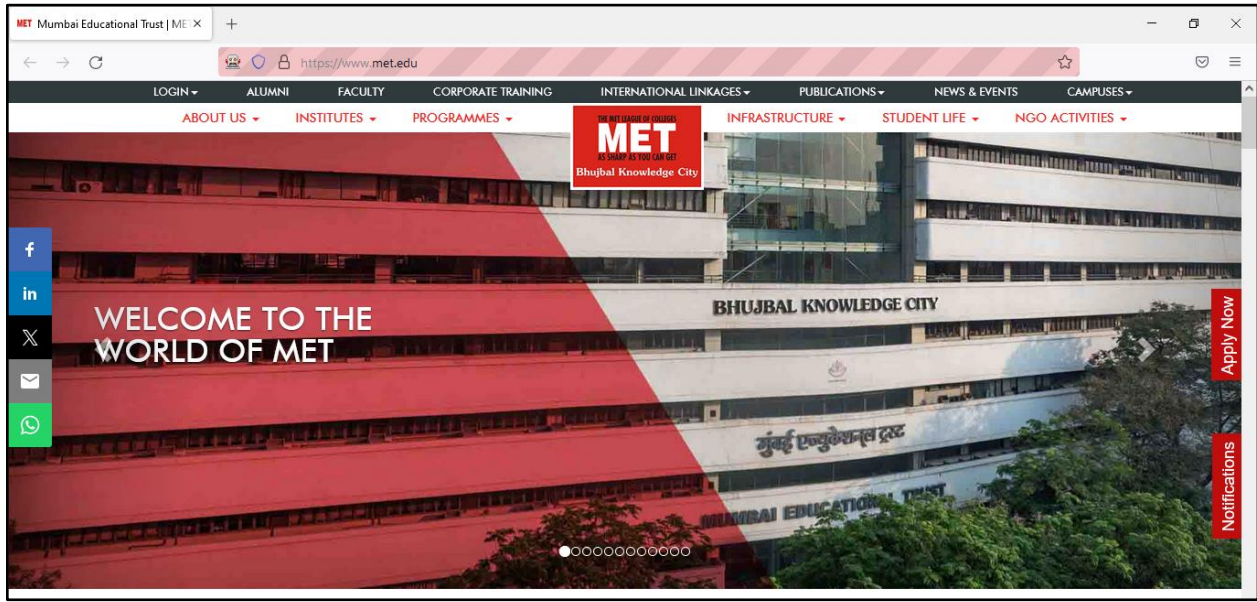


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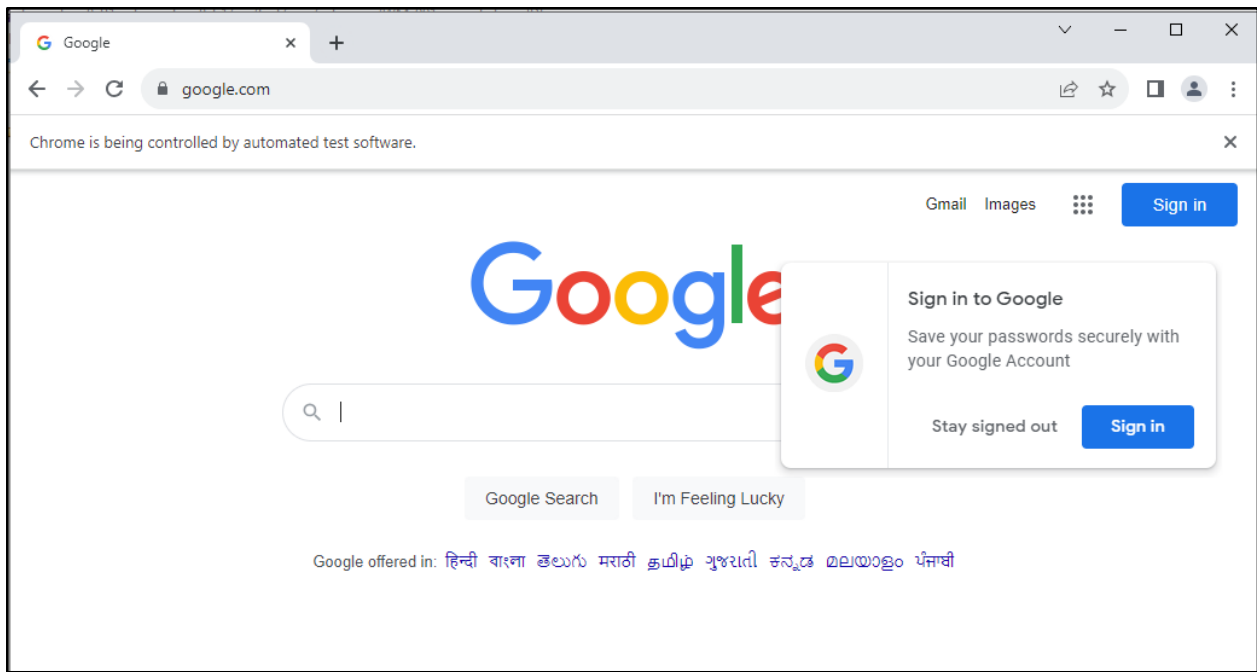
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Output:

Firefox



Chrome:



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Aim: Implement the Browser Command and Navigate command.

Code:

BaseTest.java

```
package selenium;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

import io.github.bonigarcia.wdm.WebDriverManager;

public class BaseTest {

    public static WebDriver driver;
    public static void launch(String browser)
    {
        if(browser.equals("chrome"))
        {
            WebDriverManager.chromedriver().setup();
            driver = new ChromeDriver();
        }
        else if(browser.equals("firefox"))
        {
            WebDriverManager.firefoxdriver().setup();
            driver = new FirefoxDriver();
        }
    }

    public static void navigateUrl(String url)
    {
        driver.get(url);
    }
}
```



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TC_001.java

```
package selenium;

public class TC_001 extends BaseTest {
    public static void main(String[] args)
    {
        launch("firefox");
        navigateUrl("https://github.com/");
    }
}
```

TC_002.java

```
package selenium;

public class TC_002 extends BaseTest {
    public static void main(String[] args)
    {
        launch("chrome");
        navigateUrl("https://www.geeksforgeeks.org/");
    }
}
```

Name: Yash Shashikant Patil

Roll No.: 1336

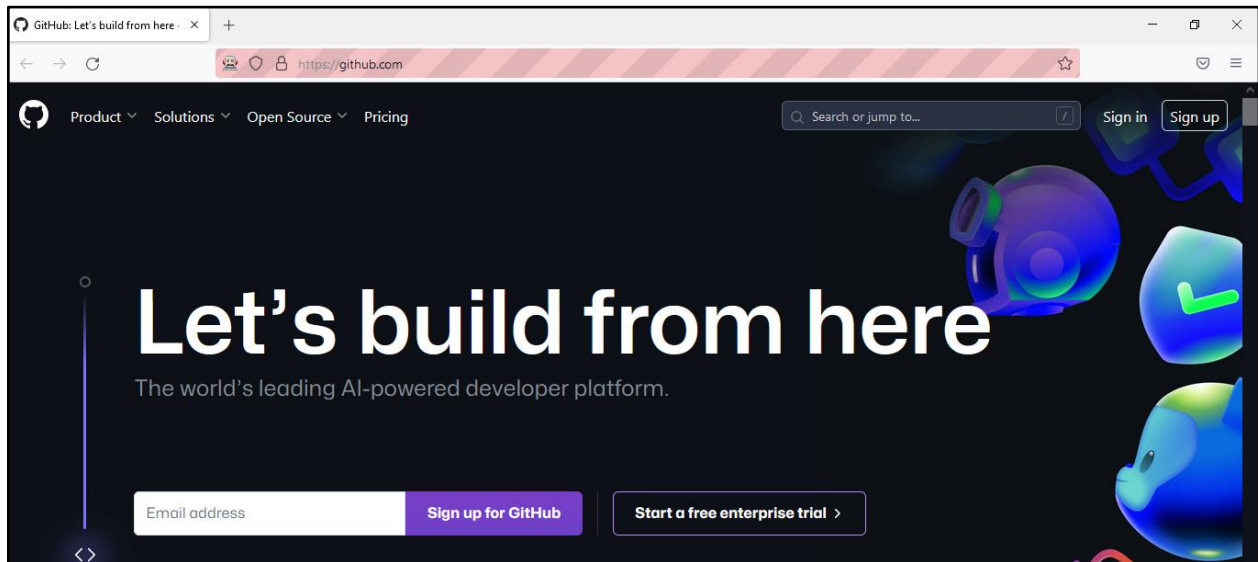


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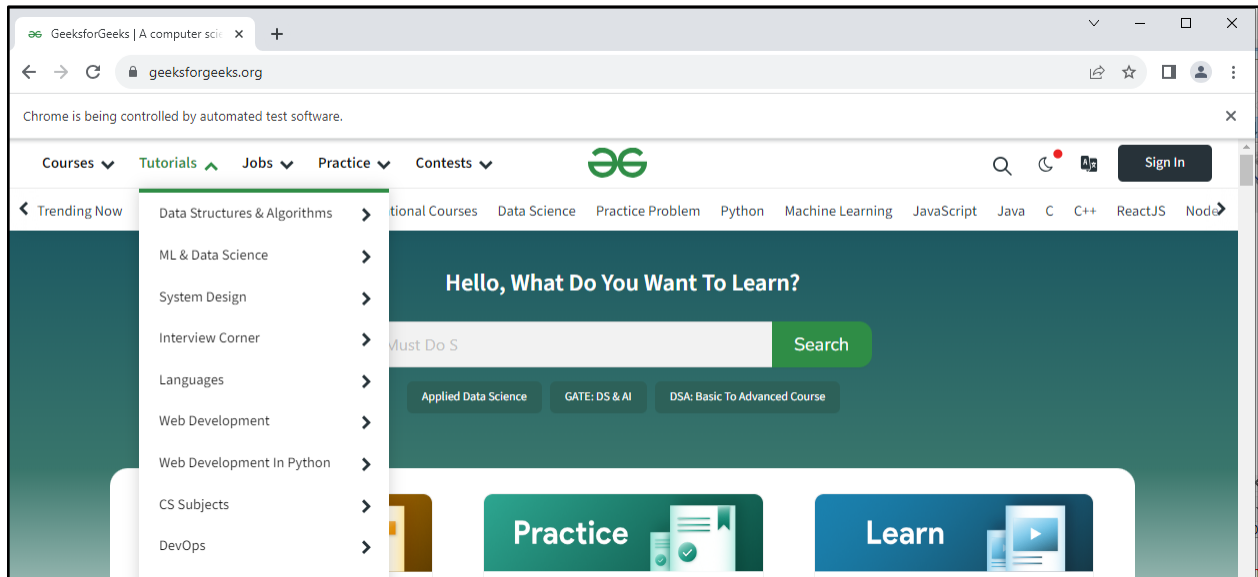
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Output:

Firefox:



Chrome:





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Aim: Demonstrate the Cross Browser demonstration using Selenium webdriver.

Code:

CrossBrowserDemo.java

```
package selenium;
import java.util.Scanner;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

public class CrossBrowserDemo {
    static WebDriver wd;
    public static void main(String[] args) throws Exception
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Select your browser: \n1: Chrome \n2: Firefox");
        System.out.println("Enter Choice: ");
        int ch = sc.nextInt();
        switch(ch){
            case 1:
                System.setProperty("webdriver.chrome.driver",
"C:\\Selenium\\chromedriver.exe");
                wd = new ChromeDriver();
                break;
            case 2:
                System.setProperty("webdriver.gecko.driver",
"C:\\Selenium\\geckodriver.exe");
                wd = new FirefoxDriver();
                break;
            default:
                System.out.print("Invalid Input.");
        }
        if(wd != null){
            wd.get("https://www.python.org/");
        }
    }
}
```



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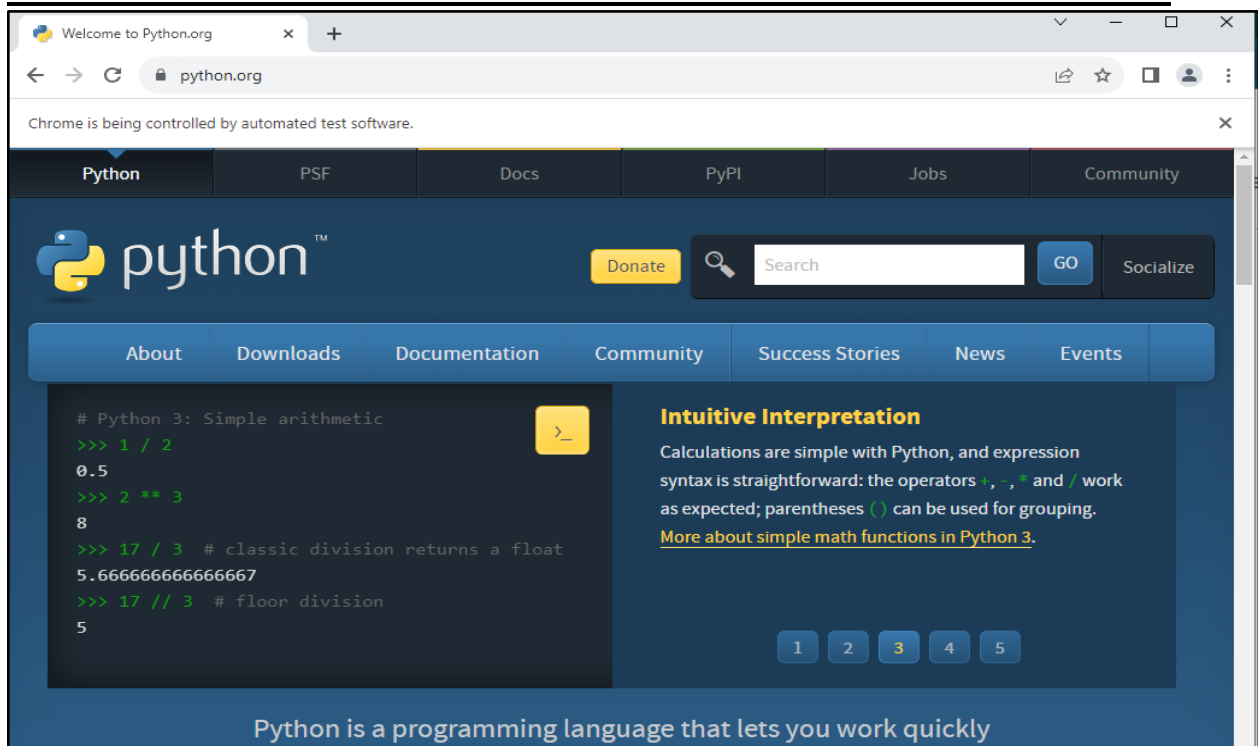


}

Output:

Chrome:

```
<terminated> CrossBrowserDemo [Java Application] C:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.fu
Select your browser:
1: Chrome
2: Firefox
Enter Choice:
1
Starting ChromeDriver 119.0.6045.105 (38c72552c5e15ba9b3117c0967a0fd105072d7c6-ref
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestio
ChromeDriver was started successfully.
[1702440378.159][WARNING]: This version of ChromeDriver has not been tested with C
Dec 13, 2023 9:36:18 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
```



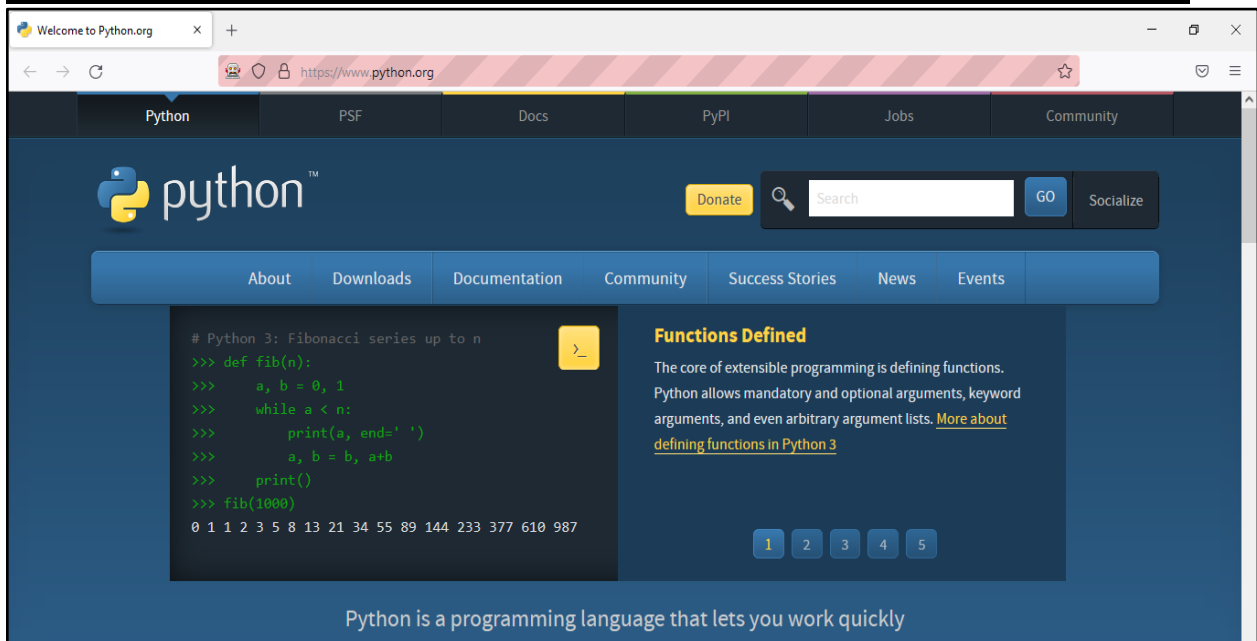


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Firefox:

```
<terminated> CrossBrowserDemo [Java Application] C:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full
Select your browser:
1: Chrome
2: Firefox
Enter Choice:
2
1702440431531 geckodriver INFO Listening on 127.0.0.1:31096
1702440431654 mozrunner::runner INFO Running command: "C:\\\\Program File
1702440431862 Marionette INFO Marionette enabled
1702440431865 Marionette INFO Listening on port 58940
Read port: 58940
1702440432047 RemoteAgent WARN TLS certificate errors will be ignored for
console.warn: SearchSettings: "get: No settings file exists, new profile?" (new No
Dec 13, 2023 9:37:12 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
JavaScript error: https://media.ethicalads.io/media/client/v1.4.0/ethicalads.min.j
JavaScript error: resource:///actors/FormValidationChild.jsm, line 183: TypeError:
```





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Aim: Implement the different types of WebDriver Methods using selenium webdriver.

Code:

WebDriverMethod.java

```
package selenium;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

import io.github.bonigarcia.wdm.WebDriverManager;

public class WebDriverMethod {

    public static WebDriver driver;
    public static void launch(String browser)
    {
        if(browser.equals("chrome"))
        {
            WebDriverManager.chromedriver().setup();
            driver = new ChromeDriver();
        }
        else if(browser.equals("firefox"))
        {
            WebDriverManager.firefoxdriver().setup();
            driver = new FirefoxDriver();
        }
    }
    public static void navigateUrl(String url)
    {
        driver.get(url);
    }
}
```

WM_001.java



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```
package selenium;
```

```
public class WM_001 extends WebDriverMethod {  
  
    public static void main(String[] args) throws Exception  
    {  
        launch("firefox");  
        navigateUrl("https://www.met.edu");  
        driver.manage().window().maximize();  
  
        String title = driver.getTitle();  
        System.out.println(title);  
  
        String url = driver.getCurrentUrl();  
        System.out.println(url);  
  
        driver.manage().deleteAllCookies();  
  
        driver.navigate().back();  
  
        Thread.sleep(3000);  
  
        driver.navigate().forward();  
  
        Thread.sleep(3000);  
  
        driver.navigate().refresh();  
  
        driver.close();  
  
        driver.quit();  
    }  
}
```

WM_002.java

```
package selenium;
```


Name: Yash Shashikant Patil

Roll No.: 1336



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```
public class WM_002 extends WebDriverMethod{  
  
    public static void main(String[] args)  
    {  
        launch("chrome");  
        navigateUrl("http://www.google.com");  
    }  
}
```

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Roll No.: 1336

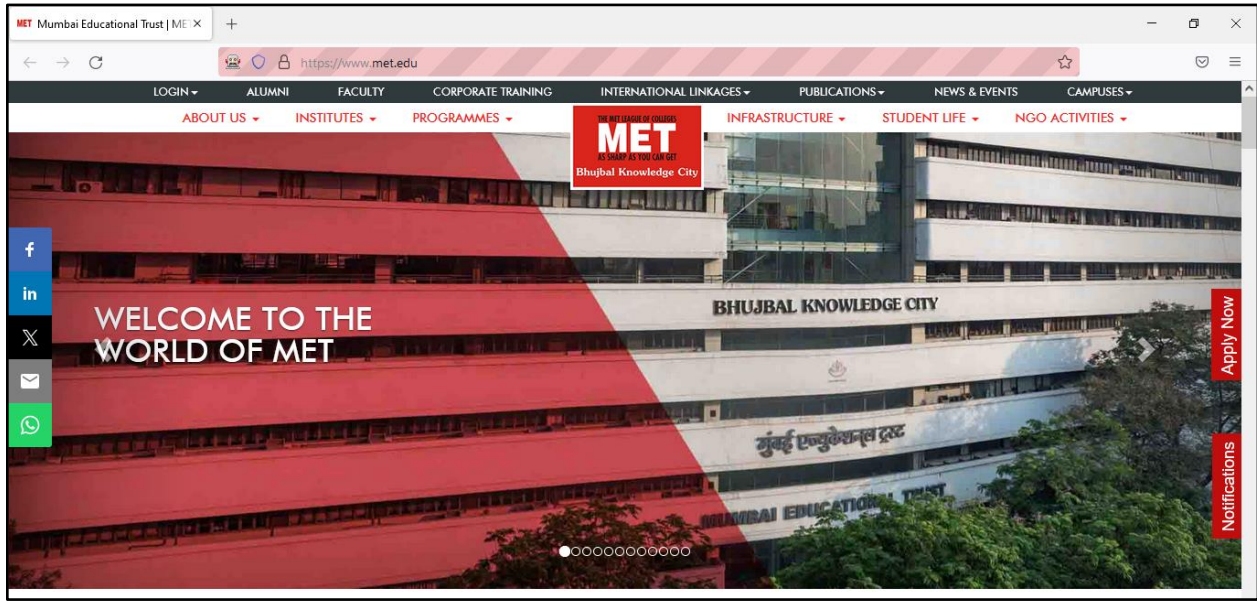


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Output:

Firefox



Chrome:

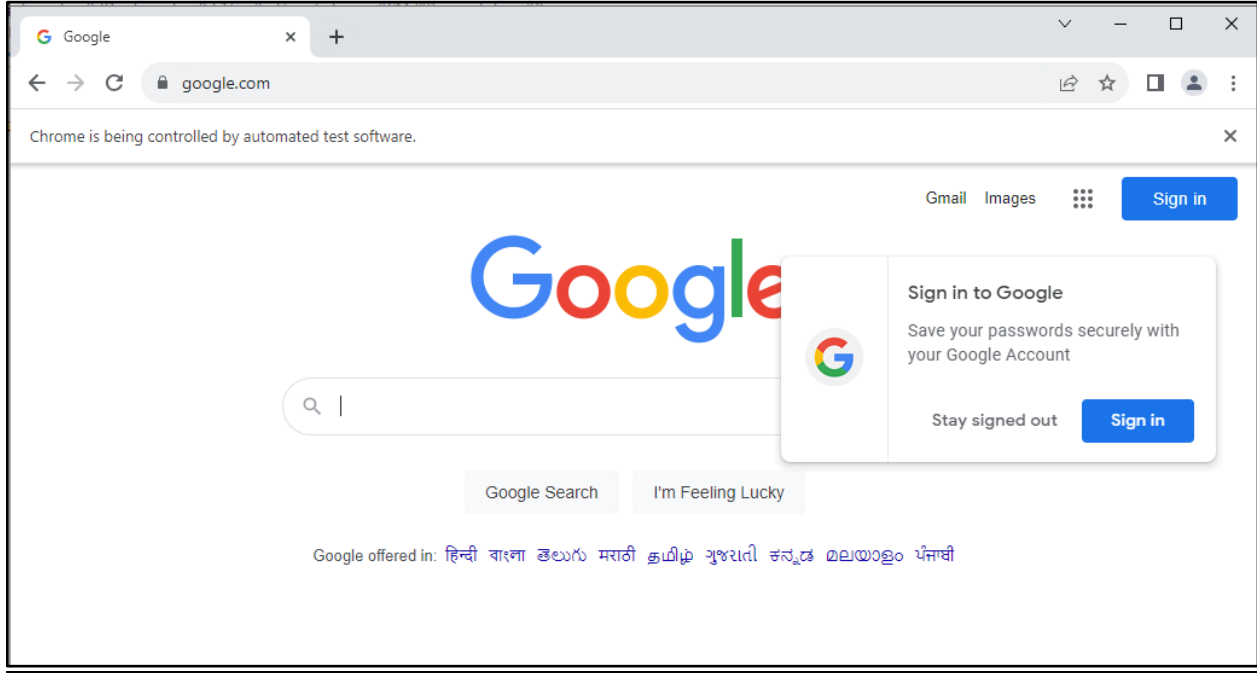
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Aim: Implement the findElement command using selenium webdriver.

Code:

Locator_1.java

```
package selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.firefox.FirefoxDriver;

import io.github.bonigarcia.wdm.WebDriverManager;

public class Locator_1 {

    public static void main(String[] args)
    {
        WebDriverManager.firefoxdriver().setup();
        FirefoxDriver driver = new FirefoxDriver();
        driver.get("http://www.javatpoint.com");

        driver.findElement(By.id("gsc-i-id1")).sendKeys("JavaTpoint");

        driver.findElement(By.id("idOfButton")).click();
    }
}
```



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- 6th Dec - Difference between Java and Core Java
- 6th Dec - Different Types of Recursions in Java

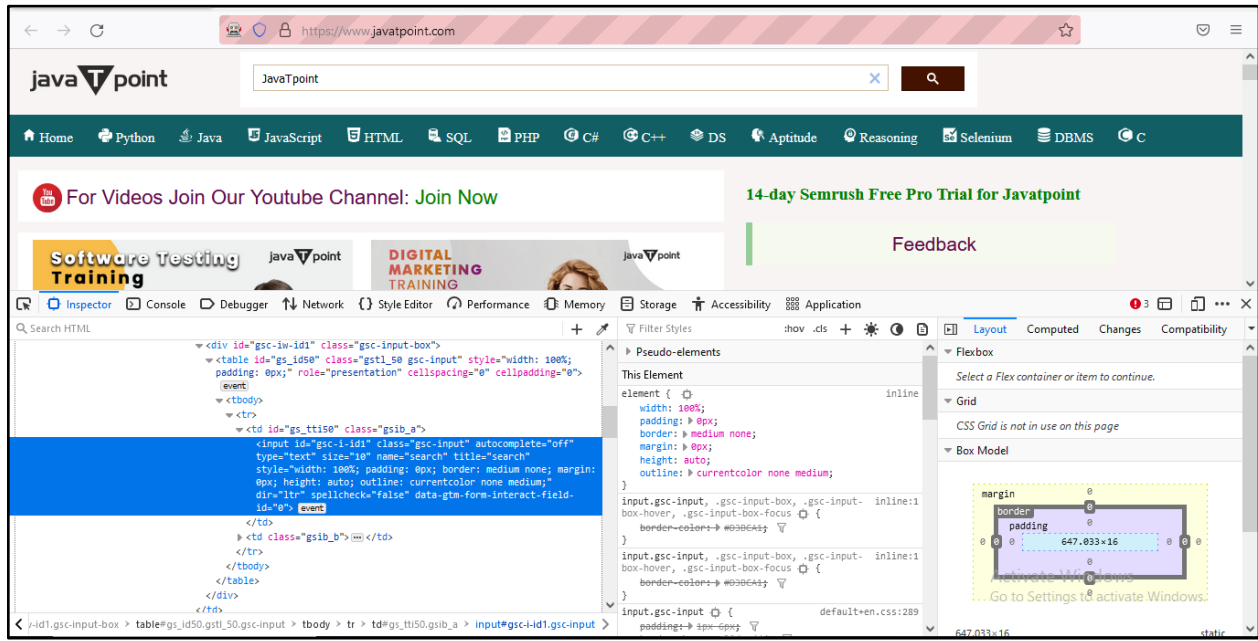
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Aim: Demonstrate the CSS Selector Locator using selenium webdriver.

Code:

CssSelectorDemo.java

```
package selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import io.github.bonigarcia.wdm.WebDriverManager;

public class CssSelectorDemo {

    public static void main(String[] args) throws Exception
    {
        WebDriver driver;

        WebDriverManager.firefoxdriver().setup();
        driver = new FirefoxDriver();
        driver.get("http://opensource-
demo.orangehrmlive.com/web/index.php/auth/login");
        driver.manage().window().maximize();
        Thread.sleep(4000);

        driver.findElement(By.cssSelector("input[name=username]")).sendKeys("Admin");
        Thread.sleep(1000);

        driver.findElement(By.cssSelector("input[name=password]")).sendKeys("admin123");
        Thread.sleep(1000);
        driver.findElement(By.cssSelector("button.oxd-button.oxd-button--
medium.oxd-button--main.orangehrm-login-button")).click();
        Thread.sleep(3000);
        driver.quit();
    }
}
```

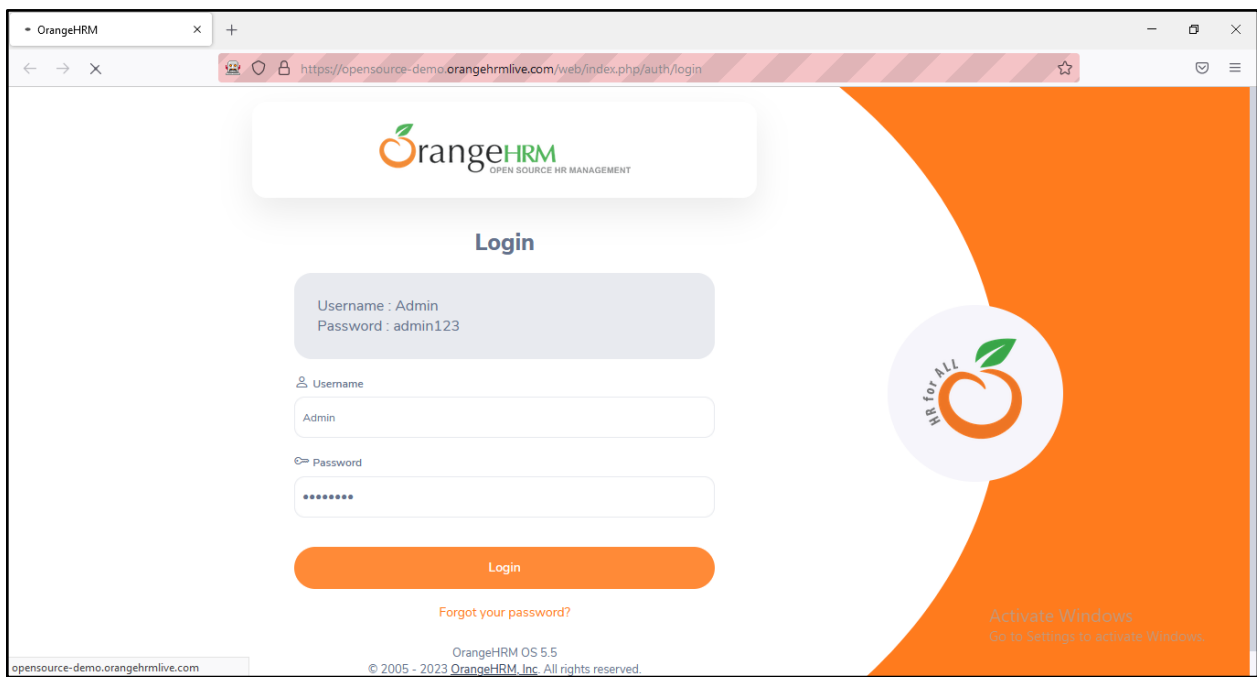
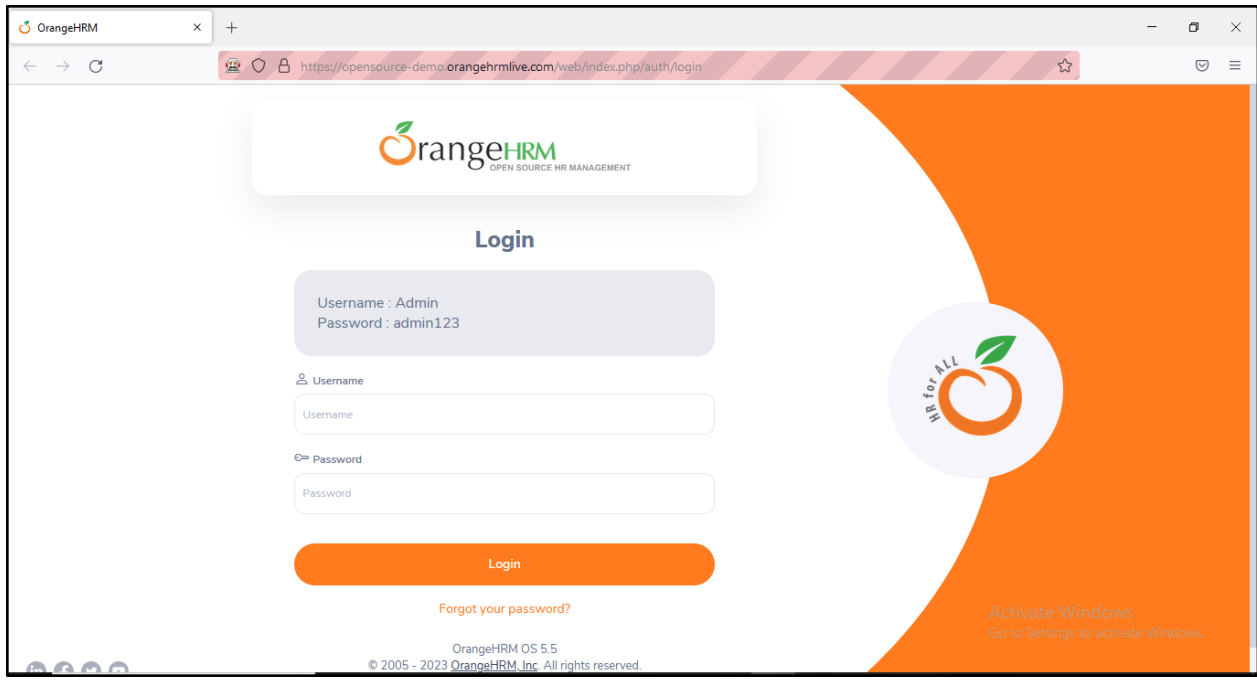


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}

Output:



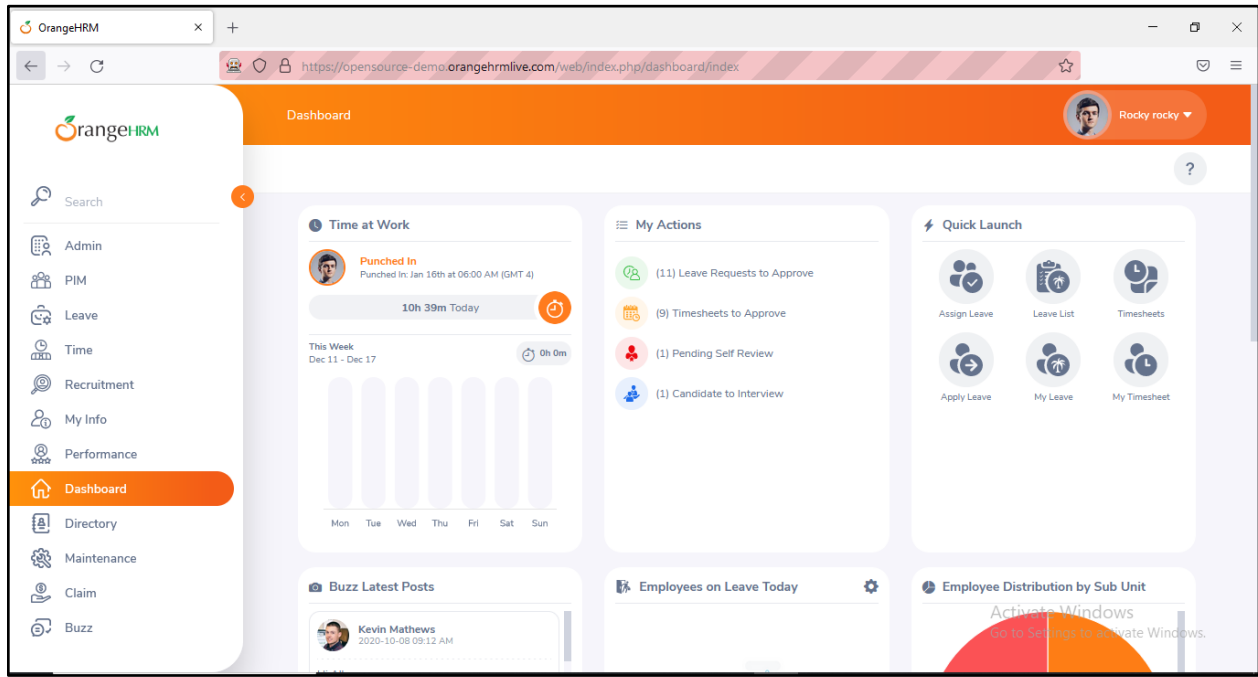
Name: Yash Shashikant Patil

Roll No.: 1336



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Bhujbal Knowledge City





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Aim: Demonstrate the Multiple window Handling using Selenium webdriver.

Code:

DemoMultiWindow.java

```
package selenium;

import java.util.Set;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.support.ui.Select;

public class DemoMultiWindow {
    public static void main(String args[]) {
        System.setProperty("webdriver.gecko.driver", "C:\\Selenium\\geckodriver.exe");
        WebDriver driver = new FirefoxDriver();
        driver.get("https://demo.frontaccounting.eu/");

        driver.findElement(By.name("user_name_entry_field")).sendKeys("demouser");

        Select s = new Select(driver.findElement(By.name("company_login_name")));
        s.selectByVisibleText("Training Co.");
        driver.findElement(By.name("SubmitUser")).click();

        driver.findElement(By.xpath("/html/body/table[1]/tbody/tr/td/table[1]/tbody/tr/td/div[2]/table/tbody/tr[1]/td/table/tbody/tr[2]/td[1]/a[1]")).click();
        String pld = driver.getWindowHandle();
        System.out.println("Parent Window-----> " + pld);

        Set<String> allwin = driver.getWindowHandles();
        for(String w : allwin) {
            driver.switchTo().window(w);
            System.out.println(driver.getTitle());
        }
    }
}
```



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```
driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

if(!w.equals(pld)) {
    Select ss = new Select(driver.findElement(By.id("customer_id")));
    ss.selectByValue("61");
    driver.manage().window().maximize();
}

driver.findElement(By.xpath("/html/body/table[1]/tbody/tr/td/table[1]/tbody/tr/td/div[2]/center/center/table/tbody/tr/td/a")).click();
}
driver.switchTo().window(pld);
driver.findElement(By.linkText("Logout")).click();
driver.close();
}}
```

Name: Yash Shashikant Patil

Roll No.: 1336



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Output:

FrontAccounting 2.4.12 - Login

https://demo.frontaccounting.eu

FrontAccounting 2.4.12 - Login

Version 2.4.12 Build 13.07.2022 - Login

User name: demouser

Password:

Company: Training Co.

Login as user: demouser and password: password

Login -->

12/13/2023 | 06:19 am

FrontAccounting 2.4.12 - Theme: default

FrontAccounting

Main Menu

https://demo.frontaccounting.eu

Sales Purchases Items and Inventory Manufacturing Fixed Assets Dimensions Banking and General Ledger Setup

Training Co. | demo.frontaccounting.eu | Demo User

Dashboard Preferences Change password Help Logout

Transactions

Sales Quotation Entry
Sales Order Entry
Direct Delivery
Direct Invoice

Delivery Against Sales Orders
Invoice Against Sales Delivery
Invoice Prepaid Orders

Template Delivery
Template Invoice
Create and Print Recurrent Invoices

Customer Payments
Customer Credit Notes
Allocate Customer Payments or Credit Notes

Inquiries and Reports

Sales Quotation Inquiry
Sales Order Inquiry
Customer Transaction Inquiry
Customer Allocation Inquiry

Customer and Sales Reports

Maintenance

Add and Manage Customers
Customer Branches
Sales Groups
Recurrent Invoices

Sales Types
Sales Persons
Sales Areas
Credit Status Setup

12/13/2023 | 06:19 am

FrontAccounting 2.4.12 - Theme: default -

FrontAccounting



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Direct Sales Delivery

Customer: 511/22 Current Credit: 1,048,154.03 Payment: Due 15th Of the Following Month Delivery Date: 12/31/2022
Branch: 511/22 Customer Discount: 0% Price List: anne Dimension: 005/2022 Demo Ltd
Reference: 6606/2022

Delivery Note Items

Item Code	Item Description	Quantity	Unit	Price before Tax	Discount %	Total	
	Samsung	1	each	0.00	0.0	0.00	Add Item
Shipping Charge						0.00	
Sub-total						0.00	
Amount Total						0.00	Update

Invoice Delivery Details

Deliver from Location: Default
Invoice before: 01/01/2023
Deliver To: Peter Saunders
Address: 1234 NW Bobcat Lane, St. Robert

Contact Phone Number: 12345678
Customer Reference:
Comments:
Shipping Company: Default

Activate Windows
Go to Settings to activate Windows.



MUMBAI EDUCATIONAL TRUST MET Institute of Computer Science



Aim: Implement the different types of Locators (id, name, class, partial link text, link text etc) using Selenium webdriver.

Code:

Selenium Locators.java

```
package selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

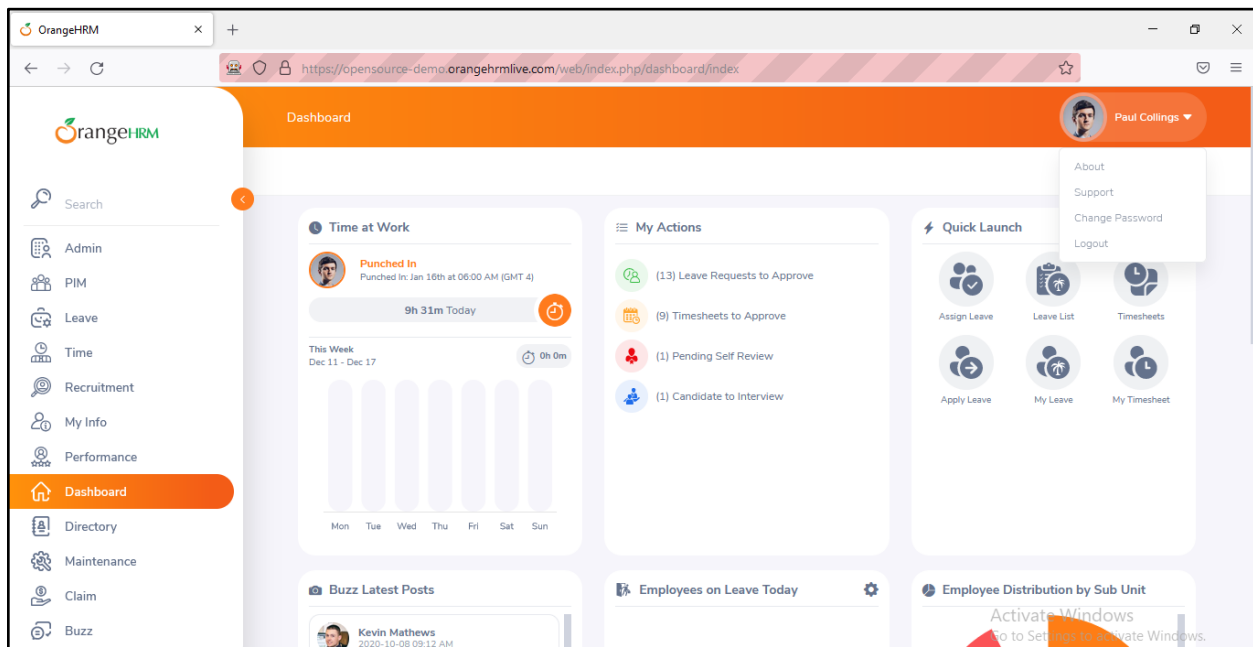
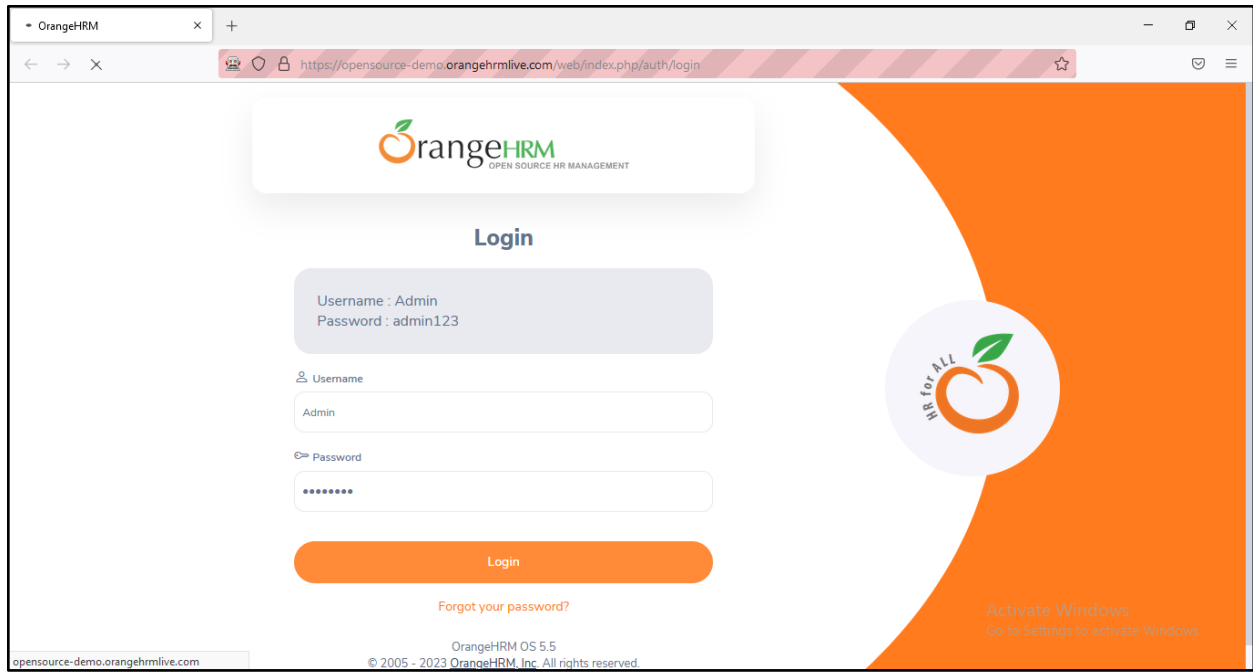
public class Selenium_Locators {
    public static void main(String[] args) throws Exception
    {
        System.setProperty("webdriver.gecko.driver", "C:\\Selenium\\geckodriver.exe");
        WebDriver wd = new FirefoxDriver();
        Thread.sleep(5000);
        wd.get("https://opensource-demo.orangehrmlive.com/");
        Thread.sleep(3000);
        wd.findElement(By.name("username")).sendKeys("Admin");
        Thread.sleep(1000);
        wd.findElement(By.name("password")).sendKeys("admin123");
        Thread.sleep(1000);
        wd.findElement(By.cssSelector("button[type=submit]")).click();
        Thread.sleep(1000);
        wd.findElement(By.className("oxd-userdropdown-name")).click();
        Thread.sleep(1000);
        wd.findElement(By.linkText("Logout")).click();
        wd.quit();
    }
}
```



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Output:



Name: Yash Shashikant Patil

Roll No.: 1336



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Aim: Implement the Partial link text Locator using selenium webdriver.

Code:

PartialLinkText Locator.java

```
package selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class PartialLinktext_Locator {

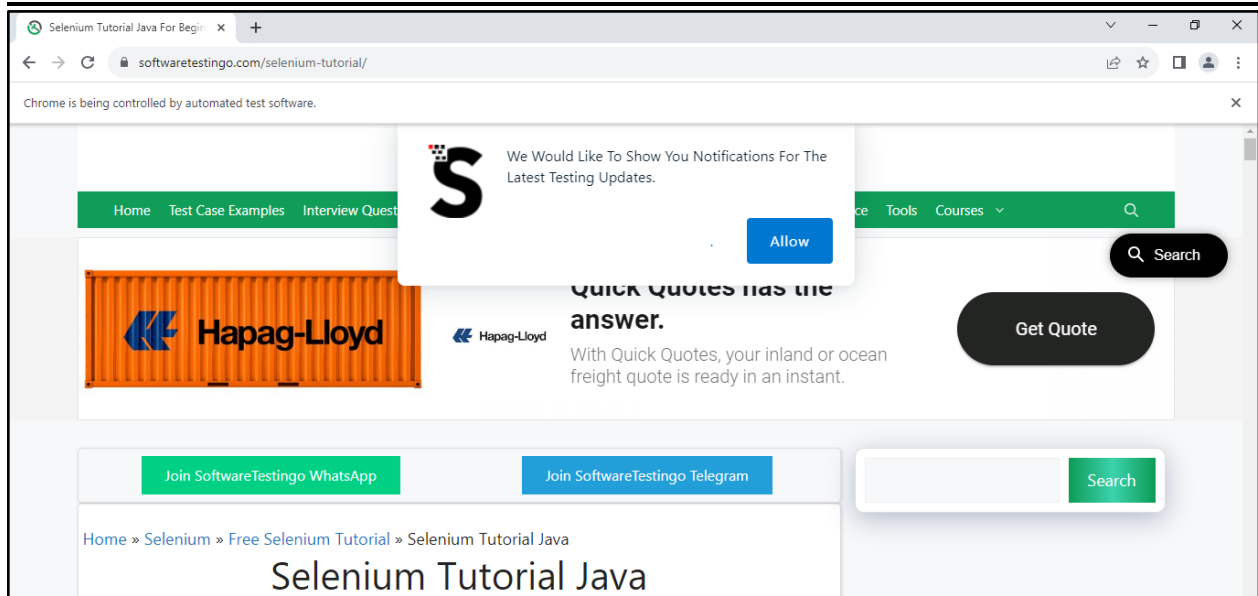
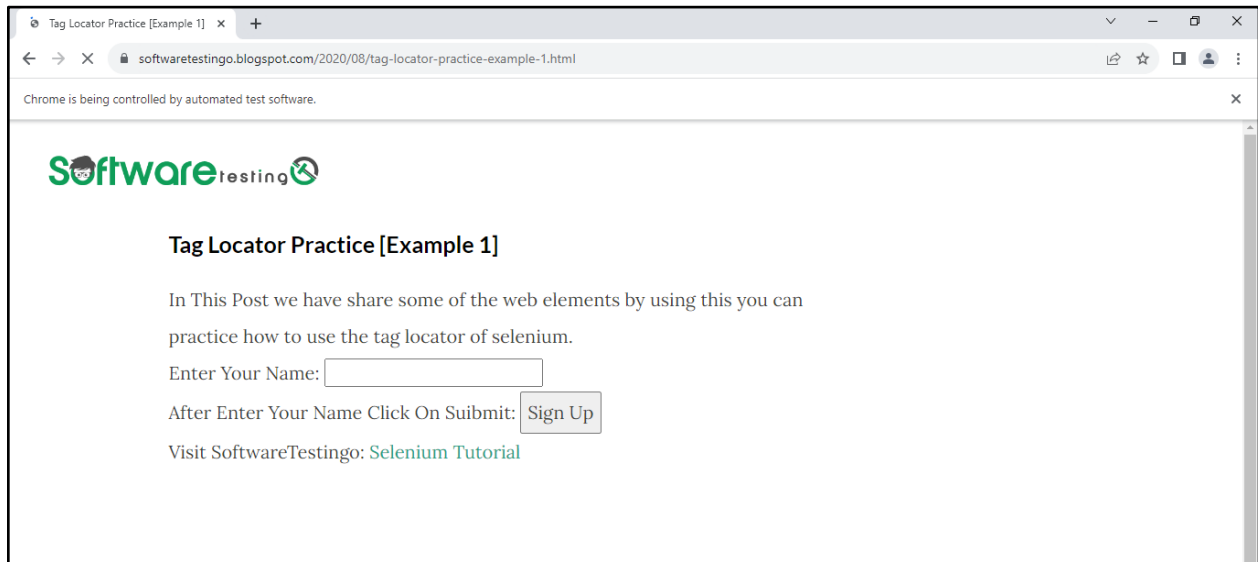
    public static void main(String[] args) throws Exception
    {
        WebDriver driver;
        System.setProperty("webdriver.chrome.driver",
"C:\\Selenium\\chromedriver.exe");
        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://softwaretestingo.blogspot.com/2020/08/tag-locator-practice-
example-1.html");
        Thread.sleep(10000);
        driver.findElement(By.partialLinkText("Selenium")).click();
        Thread.sleep(5000);
        driver.close();
    }
}
```



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Output:





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Aim: Implement the Multiselect elements on the web page.

Code:

ExplicitWaitDemo.java

```
package selenium;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.support.ui.Select;

public class MultiSelectDemo {
    public static void main(String[] args) throws Exception{
        System.setProperty("webdriver.chrome.driver",
"C:\\Selenium\\chromedriver.exe");
        WebDriver wd = new FirefoxDriver();
        wd.get("C:\\Selenium\\Sampleform.html");
        wd.manage().window().maximize();
        //To implement radio button selection for web language
        WebElement radio1 = wd.findElement(By.id("html"));
        radio1.click();
        if(radio1.isSelected()) {
            System.out.println("Language Selected: HTML");
        }
        WebElement radio2 = wd.findElement(By.cssSelector("input[name=age1]"));
        radio2.click();
        if(radio2.isSelected()) {
            System.out.println("Age Selected:0-30");
        }

        WebElement check1_1 = wd.findElement(By.cssSelector("input[name=lab1]"));
        check1_1.click();
        if(check1_1.isSelected()) {
            System.out.println("Selected: Database Lab");
        }

        WebElement check1_2 = wd.findElement(By.cssSelector("input[name=lab2]"));
```



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```
check1_2.click();
if(check1_2.isSelected()) {
    System.out.println("Selected: Programming Lab");
}

Select s = new Select(wd.findElement(By.id("select_languages")));
if(s.isMultiple()) {
    s.selectByIndex(1);
    s.selectByValue("Java");
    s.selectByValue("C#");
}

System.out.println("Selected languages");

}
}
```



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Output:

Programming Languages

×

+

← → ↻ ⓘ File | C:/Selenium/mltiselectdemo.html

Chrome is being controlled by automated test software.

Demo Page

Please select your favorite Web language:

☒ HTML
☐ CSS
☐ JavaScript

Please select your age:

☒ 0 - 30
☐ 31 - 60
☐ 61 - 100

Show Checkboxes:

☒ Database Lab
☒ Programming Lab
☐ Language Lab

Select programming languages :

C++

Python

C

Java

Submit

Name: Yash Shashikant Patil

Roll No.: 1336



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```
<terminated> MultiSelectDemo [Java Application] C:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\bin\javaw.exe
Starting ChromeDriver 120.0.6099.71 (9729082fe6174c0a371fc66501f5efc5d69d3d2b-refs/t
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions
ChromeDriver was started successfully.
Dec 15, 2023 2:08:00 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
Language Selected: HTML
Age Selected: 0-30
Selected Database Lab
Selected Programming Lab
Selected Languages!
```



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Aim: Implements Explicit wait with the help of Selenium webdriver.

Code:

ExplicitWaitDemo.java

```
package selenium;

import java.util.concurrent.TimeUnit;

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

public class ExplicitDemo {
    public static void main(String[] args) throws Exception {
        System.setProperty("webdriver.chrome.driver",
"C:\\Selenium\\chromedriver.exe");
        WebDriver wd = new FirefoxDriver();
        WebDriverWait wt = new WebDriverWait(wd,10);
        wd.get("http://opensource-demo.orangehrmlive.com/");
        wd.manage().window().maximize();
        Thread.sleep(3000);

        wd.findElement(By.cssSelector("input[name=username]")).sendKeys("Admin");
        System.out.println("Admin user = Explicit Wait");

        wd.findElement(By.cssSelector("input[name=password]")).sendKeys("admin123");
        wd.findElement(By.cssSelector("button.oxd-button--medium.oxd-button--
main.orangehrm-login-button")).click();

        wd.quit();
    }
}
```

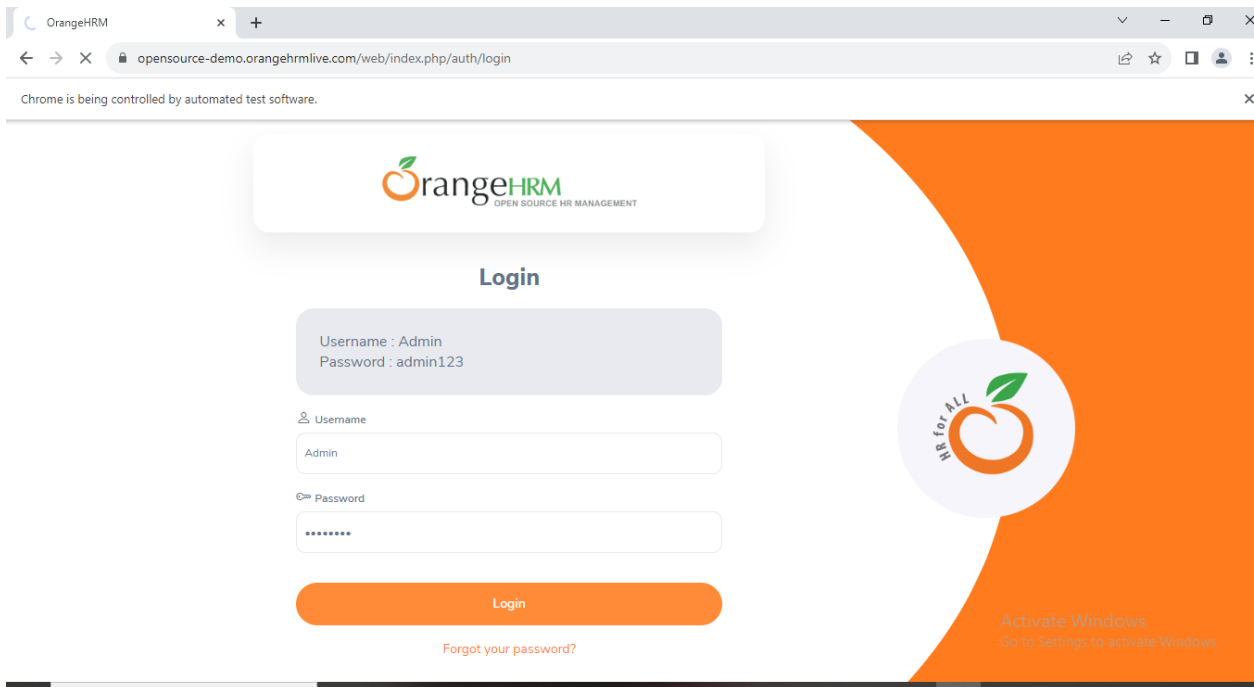


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Output:

```
Console X
<terminated> ExploitWaitDemo [Java Application] C:\eclipse\plugins\or
Admin user - Exploit Wait
```





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Aim: Implements Implicit wait with the help of Selenium webdriver.

Code:

ImplicitWaitDemo.java

```
package selenium;

import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

public class ImplicitWaitDemo {
    public static void main(String[] args) throws Exception {
        System.setProperty("webdriver.chrome.driver",
"C:\\Selenium\\chromedriver.exe");
        WebDriver wd = new FirefoxDriver();
        wd.get("http://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
        wd.manage().window().maximize();
        wd.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
        wd.findElement(By.cssSelector("input[name=username]")).sendKeys("Admin");

        wd.findElement(By.cssSelector("input[name=password]")).sendKeys("admin123");
        wd.findElement(By.cssSelector("button.oxd-button--medium.oxd-button--
main.orangehrm-login-button")).click();

        System.out.println("Done");
        wd.quit();
    }
}
```

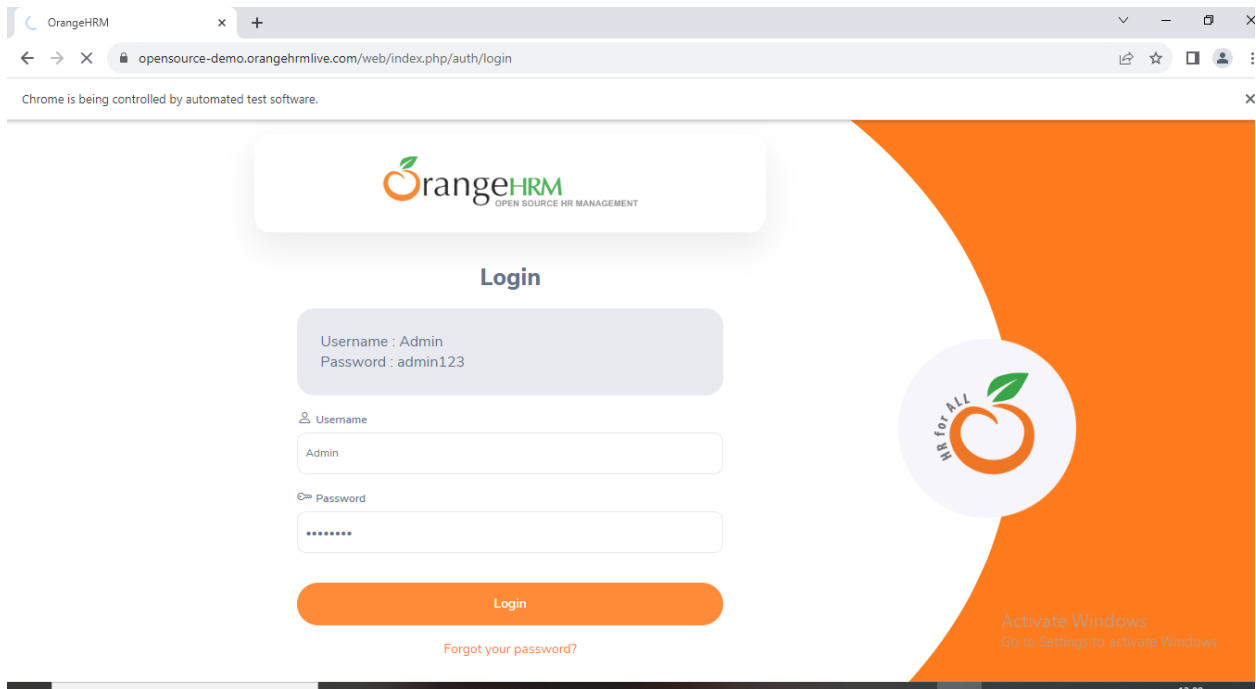


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Output:

<terminated> ImplicitWaitDemo [Java Application] C:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.w
Done





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Aim: Demonstrate the Validation testing with the help of Alert and Button clicking using selenium webdriver.

Code:

ValidationTest.java

```
package selenium;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.Alert;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

public class ValidationTest {
    public static void main(String[] args) throws Exception
    {
        System.setProperty("webdriver.gecko.driver", "C:\\Selenium\\geckodriver.exe");
        WebDriver wd = new FirefoxDriver();
        wd.manage().timeouts().implicitlyWait(20, TimeUnit.SECONDS);
        wd.get("https://demo.frontaccounting.eu/");
        wd.findElement(By.cssSelector("input[type=submit]")).click();
        wd.findElement(By.linkText("Direct Delivery")).click();
        Thread.sleep(1000);
        wd.findElement(By.id("CancelOrder")).click();
        Alert alt = wd.switchTo().alert();
        System.out.print("Alert Text ==> " + alt.getText());
        alt.accept();
    }
}
```



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Output:

FrontAccounting 2.4.12 - Login

Version 2.4.12 Build 13.07.2022 - Login

User name:

Password:

Company:

Login as user: demouser and password: password

Login -->

12/13/2023 | 06:19 am

FrontAccounting 2.4.12 - Theme: default

FrontAccounting

Main Menu

Sales Purchases Items and Inventory Manufacturing Fixed Assets Dimensions Banking and General Ledger Setup

Training Co. | demo.frontaccounting.eu | Demo User

Dashboard Preferences Change password Help Logout

Transactions

Sales Quotation Entry Sales Order Entry Direct Delivery Direct Invoice	Template Delivery Template Invoice Create and Print Recurrent Invoices
Delivery Against Sales Orders Invoice Against Sales Delivery Invoice Prepaid Orders	Customer Payments Customer Credit Notes Allocate Customer Payments or Credit Notes

Inquiries and Reports

Sales Quotation Inquiry Sales Order Inquiry Customer Transaction Inquiry Customer Allocation Inquiry	Customer and Sales Reports
---------------------------------------------------------------------------------------------------------------	----------------------------

Maintenance

Add and Manage Customers Customer Branches Sales Groups Recurrent Invoices	Sales Types Sales Persons Sales Areas Credit Status Setup
-------------------------------------------------------------------------------------	--------------------------------------------------------------------

12/13/2023 | 06:19 am

FrontAccounting 2.4.12 - Theme: default -

FrontAccounting



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Direct Sales Delivery

Training Co. | demo.frontaccounting.eu | Demo User

Dashboard Preferences Change password Help Logout

Customer: 511/22 Current Credit: 1,048,154.03 Payment: Due 15th Of the Following Month Delivery Date: 12/31/2022

Branch: 511/22 Customer Discount: 0% Price List: anne Dimension: 005/2022 Demo Ltd

Reference: 6606/2022

Delivery Note Items

Item Code	Item Description	Quantity	Unit	Price before Tax	Discount %	Total
	Samsung	1	each	0.00	0.0	0.00
Shipping Charge						0.00
Sub-total						0.00
Amount Total						0.00

Invoice Delivery Details

Deliver from Location: Default

Invoice before: 01/01/2023

Deliver To: Peter Saunders

Address: 1234 NW Bobcat Lane, St. Robert

Contact Phone Number: 12345678

Customer Reference:

Comments:

Shipping Company: Default

Activate Windows
Go to Settings to activate Windows.

Direct delivery entry has been cancelled as requested.

Enter a New Sales Delivery

Back

12/13/2023 | 06:40 am

FrontAccounting 2.4.12 - Theme: default -
FrontAccounting



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**Aim: Implement Action Demo on
<https://opensource-demo.orangehrmlive.com/> using Selenium
webdriver.**

Code:

ActionDemo.java

```
package selenium;

import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.openqa.selenium.interactions.Actions;

public class ActionDemo {
    public static void main(String[] args) throws Exception
    {
        System.setProperty("webdriver.gecko.driver", "C:\\Selenium\\geckodriver.exe");
        WebDriver wd = new FirefoxDriver();
        wd.get("http://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
        wd.manage().window().maximize();
        Thread.sleep(1000);
        wd.findElement(By.name("username")).sendKeys("Admin");
        Thread.sleep(1000);
        wd.findElement(By.name("password")).sendKeys("admin123");
        Thread.sleep(1000);

        wd.findElement(By.xpath("/html/body/div/div[1]/div/div[1]/div/div[2]/div[2]/form/div[3]/button")).click();
        Thread.sleep(1000);

        Actions act = new Actions(wd);
        List<WebElement> menu = wd.findElements(By.className("oxd-main-menu"));
        for(int i = 0; i <= menu.size()-1; i++)
        {
```

Name: Yash Shashikant Patil

Roll No.: 1336



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```
System.out.println(menu.get(i).getText()); //print text of all the element
act.moveToElement(menu.get(i)).perform(); //to perform mousehover on
all element
    }
    wd.findElement(By.xpath("/html/body/div/div[1]/div[1]/header/div[1]/div[2]/ul/li/span/img"))
.click();
    Thread.sleep(10000);
    wd.findElement(By.linkText("Logout")).click();
    }
}
```



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Output:

The image displays two screenshots of the OrangeHRM web application. The top screenshot shows the login page with the OrangeHRM logo, a 'Login' section with fields for Username (Admin) and Password (admin123), and a 'Login' button. The bottom screenshot shows the dashboard after login, featuring a sidebar menu with options like Admin, PIM, Leave, Time, Recruitment, My Info, Performance, Dashboard (selected), Directory, Maintenance, Claim, and Buzz. The main content area includes a 'Time at Work' section with a bar chart showing punch-in times, a 'My Actions' section with a list of tasks, and a 'Quick Launch' section with icons for various HR functions. The user profile '123 LALIT123' is visible in the top right corner.

OrangeHRM
OPEN SOURCE HR MANAGEMENT

Login

Username : Admin
Password : admin123

Username
Admin

Password

Login

Forgot your password?

OrangeHRM OS 5.5
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Dashboard

123 LALIT123

Search

Admin
PIM
Leave
Time
Recruitment
My Info
Performance
Dashboard
Directory
Maintenance
Claim
Buzz

Time at Work

Punched In
Punched In Today at 09:46 PM (GMT 5.5)

21h 20m Today

This Week
Dec 11 - Dec 17

24.00 24.00 9.73

Mon Tue Wed Thu Fri Sat Sun

My Actions

(6) Leave Requests to Approve
(9) Timesheets to Approve
(1) Pending Self Review
(1) Candidate to Interview

Quick Launch

Assign Leave
Leave List
Timesheets
Apply Leave
My Leave
My Timesheet

Buzz Latest Posts

123 123 LALIT123
2023-12-13 10:03 AM

Employees on Leave Today

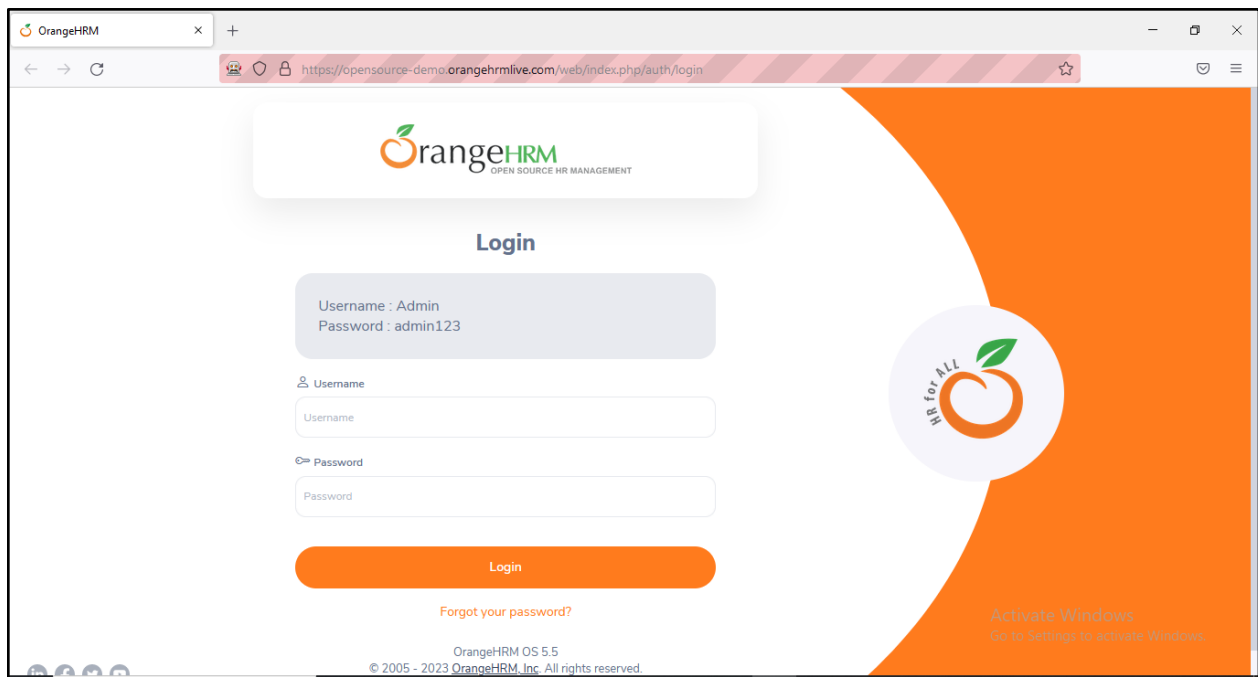
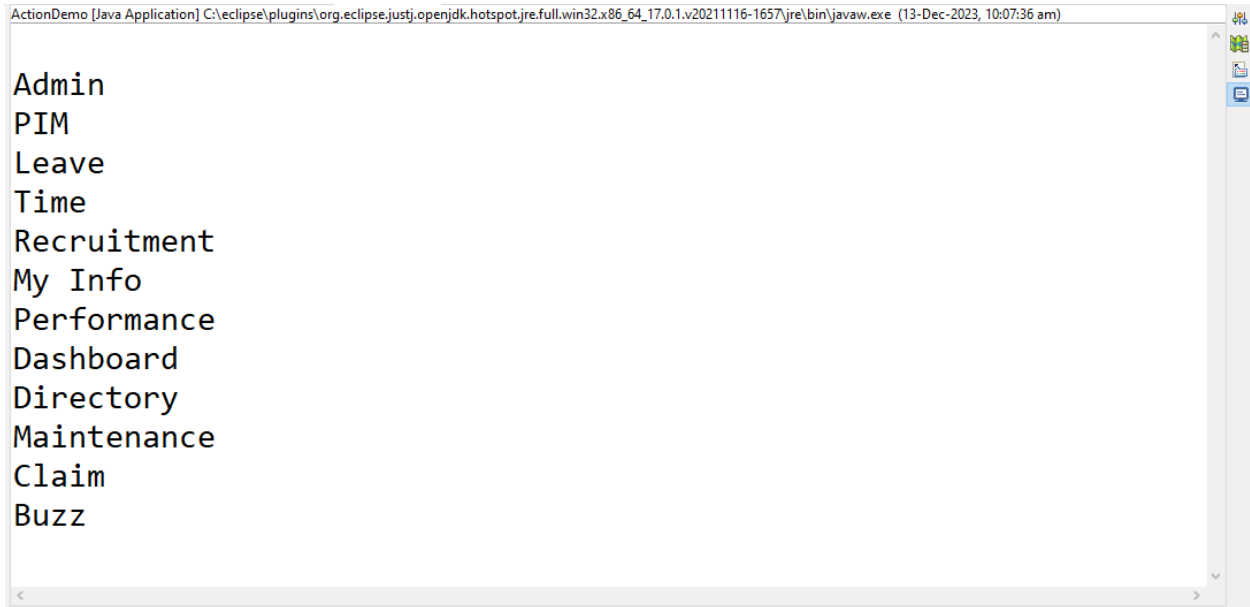
123 LALIT123
CAN - Bereavement (Half Day - Morning) 1233

Employee Distribution by Sub Unit

Activate Windows
Go to Settings to activate Windows.



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Aim: Demonstrate using TestNG framework different annotations (before method, after method, before class, after class, before test, after test, before suite and after suite) using Selenium webdriver.

Code:

TNG_001.java

```
package testing;
```

```
import org.testng.annotations.Test;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.AfterSuite;
```

```
public class TNG_001 {
    @Test
    public void f() {
        System.out.println("f");
    }
    @BeforeMethod
    public void beforeMethod() {
        System.out.println("beforeMethod");
    }

    @AfterMethod
    public void afterMethod() {
        System.out.println("afterMethod");
    }
}
```



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@BeforeClass

```
public void beforeClass() {  
    System.out.println("beforeClass");  
}
```

@AfterClass

```
public void afterClass() {  
    System.out.println("afterClass");  
}
```

@BeforeTest

```
public void beforeTest() {  
    System.out.println("beforeTest");  
}
```

@AfterTest

```
public void afterTest() {  
    System.out.println("afterTest");  
}
```

@BeforeSuite

```
public void beforeSuite() {  
    System.out.println("beforeSuite");  
}
```

@AfterSuite

```
public void afterSuite() {  
    System.out.println("afterSuite");  
}
```

```
}
```



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Output:

```

<terminated> TNG_001 [TestNG] C:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\bin\javaw.exe (14-Dec-
beforeSuite
beforeTest
beforeClass
beforeMethod
f
afterMethod
afterClass
afterTest
PASSED: f

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

afterSuite

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

```

C:\Users\mcamock\Downloads\December_8Batch1\test-output\emailable-report.html							
TestNG Report							
Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite							
Default test	1	0	0	0	22		
Class	Method	Start	Time (ms)				
Default suite							
Default test — passed							
testNGprograms.TNG_001	f	1702615602711	2				

Default test

testNGprograms.TNG_001#f

[back to summary](#)



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Aim: Attach screenshot of Default test.html in test case output.

Code:

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite							
Default test	1	0	0	0	22		

Class	Method	Start	Time (ms)
Default suite			
Default test — passed			
testNGprograms.TNG_001	f	1702615602711	2

Default test

testNGprograms.TNG_001#f

[back to summary](#)



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Aim: Demonstrate using TestNG framework data provider annotation using Selenium webdriver.

Code:

DataPDemo.java

package testing;

import org.testng.annotations.Test;

import org.testng.annotations.DataProvider;

public class DataProviderDemo

{

 @Test(dataProvider = "dp")

 public void f(Integer n, String s)

 {

 System.out.println(n+ " , "+s);

 }

 @DataProvider

 public Object[][] dp()

 {

 return new Object[][]

 {

 new Object[] { 1, "a" },

 new Object[] { 2, "b" },

 };

 }

}



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Output:

```

Markers Properties Servers Data Source Explorer Snippets Console × Progress Results of running class Dat...
<terminated> DataProviderDemo [TestNG] C:\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\bin\javaw.exe
[[RemoteTestNG] detected TestNG version 7.4.0
1 , a
2 , b
PASSED: f(1, "a")
PASSED: f(2, "b")

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

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

```

C:\Users\mcamock\Downloads\December_8Batch\test-output\emailable-report.html

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite							
Default test	2	0	0	0	25		

Class	Method	Start	Time (ms)
Default suite			
Default test — passed			
testNGprograms.DataPDemo	f	1702615677719	4
	f		

Default test

testNGprograms.DataPDemo#f

Parameter #1	Parameter #2
1	a

[back to summary](#)

Activate Windows
Go to Settings to activate Windows.



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Aim: Demonstrate using TestNG framework data provider annotation for login process of <https://opensource-demo.orangehrmlive.com/> using Selenium web driver. Try login with valid and invalid credentials and check the test results.

Code:

DemoLoginOHM.java

```
package testing;
```

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

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

```
import org.openqa.selenium.By;  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.firefox.FirefoxDriver;  
import org.testng.annotations.AfterSuite;  
import org.testng.annotations.BeforeClass;  
import org.testng.annotations.BeforeSuite;  
import org.testng.annotations.DataProvider;
```

```
public class DemoLoginOHM {  
    WebDriver wd;  
    @Test(dataProvider = "dp")  
    public void f(String un, String pwd) throws Exception {  
        wd.findElement(By.name("username")).sendKeys(un);  
        wd.findElement(By.name("password")).sendKeys(pwd);  
        wd.findElement(By.cssSelector("button[type=submit]")).click();  
        Thread.sleep(1000);  
  
        wd.findElement(By.xpath("//*[ @id=\"app\"]/div[1]/div[1]/header/div[1]/div[2]/ul/li/span")).cli  
ck();  
        wd.findElement(By.linkText("Logout")).click();  
  
    }  
}
```




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@BeforeSuite

```
public void openBrowser() {  
    System.setProperty("webdriver.chrome.driver", "C:\\\\Selenium\\chromedriver.exe");  
    wd = new FirefoxDriver();  
}
```

@BeforeClass

```
public void url()  
{  
    wd.get("http://opensource-demo.orangehrmlive.com/web/index.php/auth/login");  
    wd.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);  
}
```

@AfterSuite

```
public void closeBrowser() {  
    wd.quit();  
}
```

@DataProvider

```
public Object[][] dp() {  
    return new Object[][] {  
        new Object[] { "Admin", "admin123" },  
        new Object[] { "adm", "admin123" },  
    };  
}
```

Output:




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OrangeHRM

opensource-demo.orangehrmlive.com/web/index.php/auth/login

Chrome is being controlled by automated test software.



OPEN SOURCE HR MANAGEMENT

Login

Username : Admin
Password : admin123

Username

Admin


Password

Login

OrangeHRM

opensource-demo.orangehrmlive.com/web/index.php/auth/login

Chrome is being controlled by automated test software.



OPEN SOURCE HR MANAGEMENT

Login

Invalid credentials

Username : Admin
Password : admin123

Username

Username

Password

Password



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```
[RemoteTestNG] detected TestNG version 7.7.0
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.
PASSED: testing.DemoLoginOHM.f("Admin", "admin123")
FAILED: testing.DemoLoginOHM.f("adm", "admin123")
```

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

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

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite							
Default test	1	0	0	1	21,273		

Class	Method	Start	Time (ms)
Default suite			
Default test — failed			
testing.DemoLoginOHM	f	1702618815806	12295
Default test — passed			
testing.DemoLoginOHM	f	1702618811652	4152

Default test

testing.DemoLoginOHM#f



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Aim: Demonstrate using TestNG framework test case skip feature using Selenium webdriver.

Code:

SkipDemo.java

```
package testNGprograms;

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

public class SkipDemo {
    @Test
    public void Login1()
    {
        System.out.println("Login 1 check");
    }
    @Test
    public void Login2()
    {
        System.out.println("Login 2 check");
        throw new SkipException("Login 2 functionality not available");
    }
    @Test
    public void Login3()
    {
        System.out.println("Login 3 check");
    }
}
```



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Output:

```

Console X
<terminated> SkipDemo [TestNG] C:\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\bin\javaw.exe (
[[RemoteTestNG] detected TestNG version 7.4.0
Login 1 check
Login 2 check
Login 3 check
PASSED: Login3
PASSED: Login1
SKIPPED: Login2
org.testng.SkipException: Login 2 functionality not available
    at testNGprograms.SkipDemo.Login2(SkipDemo.java:16)
    at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:77)
    at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:46)
    at java.base/java.lang.reflect.Method.invoke(Method.java:568)
    at org.testng.internal.MethodInvocationHelper.invokeMethod(MethodInvocationHelper.java:133)
    at org.testng.internal.TestInvoker.invokeMethod(TestInvoker.java:598)
    at org.testng.internal.TestInvoker.invokeTestMethod(TestInvoker.java:173)
    at org.testng.internal.MethodRunner.runInSequence(MethodRunner.java:46)
    at org.testng.internal.TestInvoker$MethodInvocationAgent.invoke(TestInvoker.java:824)
    at org.testng.internal.TestInvoker.invokeTestMethods(TestInvoker.java:146)
    at org.testng.internal.TestMethodWorker.invokeTestMethods(TestMethodWorker.java:146)
    at org.testng.internal.TestMethodWorker.run(TestMethodWorker.java:128)
    at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
    at org.testng.TestRunner.privateRun(TestRunner.java:794)
    at org.testng.TestRunner.run(TestRunner.java:596)
    at org.testng.SuiteRunner.runTest(SuiteRunner.java:377)
    at org.testng.SuiteRunner.runSequentially(SuiteRunner.java:371)
    at org.testng.SuiteRunner.privateRun(SuiteRunner.java:332)
    at org.testng.SuiteRunner.run(SuiteRunner.java:276)
    at org.testng.SuiteRunnerWorker.runSuite(SuiteRunnerWorker.java:53)
    at org.testng.SuiteRunnerWorker.run(SuiteRunnerWorker.java:96)
    at org.testng.TestNG.runSuitesSequentially(TestNG.java:1212)
    at org.testng.TestNG.runSuitesLocally(TestNG.java:1134)
    at org.testng.TestNG.runSuites(TestNG.java:1063)
    at org.testng.TestNG.run(TestNG.java:1031)
    at org.testng.remote.AbstractRemoteTestNG.run(AbstractRemoteTestNG.java:115)
    at org.testng.remote.RemoteTestNG.initAndRun(RemoteTestNG.java:251)
    at org.testng.remote.RemoteTestNG.main(RemoteTestNG.java:77)

```



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Default test

Tests run: 3, Failures: 0, Skips: 1

Default suite

Total tests run: 3, Passes: 2, Failures: 0, Skips: 1

TestNG Report

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite							
Default test	2	1	0	0	25		

Class	Method	Start	Time (ms)
Default suite			
Default test — skipped			
testNGprograms.SkipDemo	Login2	1702616990502	0
Default test — passed			
testNGprograms.SkipDemo	Login1	1702616990498	4
testNGprograms.SkipDemo	Login3	1702616990503	0

Default test

testNGprograms.SkipDemo@Login2

Exception
org.testng.SkipException: Login 2 functionality not available at testNGprograms.SkipDemo.Login2(SkipDemo.java:16) at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method) at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:77) at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43) at java.base/java.lang.reflect.Method.invoke(Method.java:568) at org.testng.internal.MethodInvocationHelper.invokeMethod(MethodInvocationHelper.java:133) at org.testng.internal.TestInvoker.invokeMethod(TestInvoker.java:598) at org.testng.internal.TestInvoker.invokeTestMethod(TestInvoker.java:173) at org.testng.internal.MethodRunner.runInSequence(MethodRunner.java:46) at org.testng.internal.TestInvoker\$MethodInvocationAgent.invoke(TestInvoker.java:824) at org.testng.internal.TestInvoker.invokeTestMethods(TestInvoker.java:146) at org.testng.internal.TestMethodWorker.invokeTestMethods(TestMethodWorker.java:146) at org.testng.internal.TestMethodWorker.run(TestMethodWorker.java:128) at java.base/java.util.ArrayList.forEach(ArrayList.java:1511) at org.testng.TestRunner.privateRun(TestRunner.java:794) at org.testng.TestRunner.run(TestRunner.java:596) at org.testng.SuiteRunner.runTest(SuiteRunner.java:377) at org.testng.SuiteRunner.runSequentially(SuiteRunner.java:371) at org.testng.SuiteRunner.privateRun(SuiteRunner.java:332) at org.testng.SuiteRunner.run(SuiteRunner.java:276) at org.testng.SuiteRunnerWorker.runSuite(SuiteRunnerWorker.java:53) at org.testng.SuiteRunnerWorker.run(SuiteRunnerWorker.java:96) at org.testng.TestNG.runSuitesSequentially(TestNG.java:1212) at org.testng.TestNG.runSuitesLocally(TestNG.java:1134) at org.testng.TestNG.runSuites(TestNG.java:1063) at org.testng.TestNG.run(TestNG.java:1021) at org.testng.remote.AbstractRemoteTestNG.run(AbstractRemoteTestNG.java:115) at org.testng.remote.RemoteTestNG.initAndRun(RemoteTestNG.java:251) at org.testng.remote.RemoteTestNG.main(RemoteTestNG.java:77)

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testNGprograms.SkipDemo@Login1



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Aim: Demonstrate using TestNG framework assert methods using Selenium webdriver.

Code:

DemoAssert.java

package testing;

import org.testng.Assert;

import org.testng.annotations.Test;

public class DemoAssert {

 @Test

 public void Login1() {

 System.out.println("Assert check");

 Assert.assertTrue(2<4);

 Assert.assertTrue(2>4);

 Assert.assertEquals("abc","abc");

 Assert.assertEquals("abc","abcde");

 }

 @Test

 public void Login2() {

 System.out.println("Login 2 check");

 }

}



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Output:

```
Console X
<terminated> DemoAssert [TestNG] C:\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.1.x20211116-1657\jre\bin\javaw.exe (14-Dec-2023, 11:01:56 am - 11:01:57 am)
[RemoteTestNG] detected TestNG version 7.4.0
Assert check
Login 2 check
PASSED: Login2
FAILED: Login1
java.lang.AssertionError: expected [true] but found [false]
    at org.testng.Assert.fail(Assert.java:99)
    at org.testng.Assert.failNotEquals(Assert.java:1037)
    at org.testng.Assert.assertTrue(Assert.java:45)
    at org.testng.Assert.assertTrue(Assert.java:53)
    at testing.DemoAssert.Login1(DemoAssert.java:11)
    at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
    at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:77)
    at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
    at java.base/java.lang.reflect.Method.invoke(Method.java:568)
    at org.testng.internal.MethodInvocationHelper.invokeMethod(MethodInvocationHelper.java:133)
    at org.testng.internal.TestInvoker.invokeMethod(TestInvoker.java:598)
    at org.testng.internal.TestInvoker.invokeTestMethod(TestInvoker.java:173)
    at org.testng.internal.MethodRunner.runInSequence(MethodRunner.java:46)
    at org.testng.internal.TestInvoker$MethodInvocationAgent.invoke(TestInvoker.java:824)
    at org.testng.internal.TestInvoker.invokeTestMethods(TestInvoker.java:146)
    at org.testng.internal.TestMethodWorker.invokeTestMethods(TestMethodWorker.java:146)
    at org.testng.internal.TestMethodWorker.run(TestMethodWorker.java:128)
    at java.base/java.util.ArrayList.forEach(ArrayList.java:1511)
    at org.testng.TestRunner.privateRun(TestRunner.java:794)
    at org.testng.TestRunner.run(TestRunner.java:596)
    at org.testng.SuiteRunner.runTest(SuiteRunner.java:377)
    at org.testng.SuiteRunner.runSequentially(SuiteRunner.java:371)
    at org.testng.SuiteRunner.privateRun(SuiteRunner.java:332)
    at org.testng.SuiteRunner.run(SuiteRunner.java:276)
    at org.testng.SuiteRunnerWorker.runSuite(SuiteRunnerWorker.java:53)
    at org.testng.SuiteRunnerWorker.run(SuiteRunnerWorker.java:96)
    at org.testng.TestNG.runSuitesSequentially(TestNG.java:1212)
    at org.testng.TestNG.runSuitesLocally(TestNG.java:1134)
    at org.testng.TestNG.runSuites(TestNG.java:1063)
    at org.testng.TestNG.run(TestNG.java:1031)
    at org.testng.remote.AbstractRemoteTestNG.run(AbstractRemoteTestNG.java:115)
    at org.testng.remote.RemoteTestNG.run(RemoteTestNG.java:103)
    at org.testng.remote.RemoteTestNG.initAndRun(RemoteTestNG.java:231)
    at org.testng.remote.RemoteTestNG.main(RemoteTestNG.java:47)

Activate Windows
Go to Settings to activate Windows.
```

```
=====
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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TestNG Report	TestNG Report	TestNG Report	TestNG Report

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite							
Default test	1	0	0	1	27		

Class	Method	Start	Time (ms)
Default suite			
Default test — failed			
testNGprograms.DemoAssert	Login1	1702615709700	6
Default test — passed			
testNGprograms.DemoAssert	Login2	1702615709708	0

Default test

testNGprograms.DemoAssert#Login1

Exception
<pre> java.lang.AssertionError: expected [false] but found [true] at org.testng.Assert.fail (Assert.java:99) at org.testng.Assert.failNotEquals (Assert.java:1037) at org.testng.Assert.assertFalse (Assert.java:67) at org.testng.Assert.assertFalse (Assert.java:77) at testNGprograms.DemoAssert.Login1 (DemoAssert.java:13) at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke0 (Native Method) at java.base/jdk.internal.reflect.NativeMethodAccessorImpl.invoke (NativeMethodAccessorImpl.java:77) at java.base/jdk.internal.reflect.DelegatingMethodAccessorImpl.invoke (DelegatingMethodAccessorImpl.java:43) at java.base/java.lang.reflect.Method.invoke (Method.java:568) at org.testng.internal.MethodInvocationHelper.invokeMethod (MethodInvocationHelper.java:133) at org.testng.internal.TestInvoker.invokeMethod (TestInvoker.java:598) at org.testng.internal.TestInvoker.invokeTestMethod (TestInvoker.java:173) at org.testng.internal.MethodRunner.runInSequence (MethodRunner.java:46) at org.testng.internal.TestInvoker\$MethodInvocationAgent.invoke (TestInvoker.java:824) at org.testng.internal.TestInvoker.invokeTestMethods (TestInvoker.java:146) at org.testng.internal.TestMethodWorker.invokeTestMethods (TestMethodWorker.java:146) at org.testng.internal.TestMethodWorker.run (TestMethodWorker.java:128) at java.base/java.util.ArrayList.forEach (ArrayList.java:1511) at org.testng.TestRunner.privateRun (TestRunner.java:794) at org.testng.TestRunner.run (TestRunner.java:596) at org.testng.SuiteRunner.runTest (SuiteRunner.java:377) at org.testng.SuiteRunner.runSequentially (SuiteRunner.java:371) at org.testng.SuiteRunner.privateRun (SuiteRunner.java:332) at org.testng.SuiteRunner.run (SuiteRunner.java:276) at org.testng.SuiteRunnerWorker.runSuite (SuiteRunnerWorker.java:53) at org.testng.SuiteRunnerWorker.run (SuiteRunnerWorker.java:96) at org.testng.TestNG.runSuitesSequentially (TestNG.java:1212) at org.testng.TestNG.runSuitesLocally (TestNG.java:1134) at org.testng.TestNG.runSuites (TestNG.java:1063) at org.testng.TestNG.run (TestNG.java:1031) at org.testng.remote.AbstractRemoteTestNG.run (AbstractRemoteTestNG.java:115) at org.testng.remote.RemoteTestNG.initAndRun (RemoteTestNG.java:251) at org.testng.remote.RemoteTestNG.main (RemoteTestNG.java:77) </pre>

[back to summary](#)



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

Code:

AssertDemoOHM.java

```
package testing;
```

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

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

```
import org.openqa.selenium.By;  
import org.openqa.selenium.WebDriver;  
import org.openqa.selenium.firefox.FirefoxDriver;  
import org.testng.Assert;  
import org.testng.annotations.AfterClass;  
import org.testng.annotations.BeforeSuite;  
import org.testng.annotations.AfterSuite;
```

```
public class AssertDemoOHM {  
    WebDriver wd;
```

```
    @BeforeSuite
```

```
    public void openBrowser() {  
        System.setProperty("webdriver.chrome.driver", "C:\\Selenium\\chromedriver.exe");  
        wd = new FirefoxDriver();
```

```
    }
```

```
    @BeforeClass
```

```
    public void loginURI() throws Exception {  
        wd.get("http://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
```



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```
wd.manage().window().maximize();
wd.manage().timeouts().implicitlyWait(5, TimeUnit.SECONDS);
wd.findElement(By.name("username")).sendKeys("Admin");
wd.findElement(By.name("password")).sendKeys("admin123");
wd.findElement(By.cssSelector("button[type=submit]")).click();
Thread.sleep(1000);
}

@Test
public void orangeHRM() {
    String title = wd.getTitle();
    System.out.println("Webdriver:" + title);
    String exp_title = "OrangeHRM";
    Assert.assertEquals(title, exp_title);
}

@AfterClass
public void logOut() {

wd.findElement(By.xpath("/html/body/div/div[1]/div[1]/header/div[1]/div[2]/ul/li/span")).click();
    wd.findElement(By.linkText("Logout")).click();
}

@AfterSuite
public void closeDriver() {
    wd.close();
}
}
```



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Output:

```
[RemoteTestNG] detected TestNG version 7.7.0
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.
Webdriver:OrangeHRM
PASSED: testing.AssertDemoOHM.orangeHRM
```

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

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

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite							
Default test	1	0	0	0	6,541		

Class	Method	Start	Time (ms)
Default suite			
Default test — passed			
testing.AssertDemoOHM	orangeHRM	1702621833604	6

Default test

testing.AssertDemoOHM#orangeHRM

[back to summary](#)



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Aim: Demonstrate using TestNG framework test case priority using Selenium webdriver.

Code:

PriorityDemo.java

```
package testing;

import org.testng.annotations.Test;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.AfterTest;

public class PriorityDemo {
    @Test(priority=2)
    public void test1() {
        System.out.println("Inside test1");
    }
    @Test(priority=3)
    public void test2() {
        System.out.println("Inside test2");
    }

    @Test(priority=1)
    public void test3() {
        System.out.println("Inside test3");
    }
}
```



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Output:

```

Markers Properties Servers Data Source Explorer Snippets Console × Progress Results of running class Pri...
<terminated> PriorityDemo [TestNG] C:\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\bin\javaw.exe (14-
[RemoteTestNG] detected TestNG version 7.4.0
Inside test3
Inside test1
Inside test2
PASSED: test1
PASSED: test2
PASSED: test3

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

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

```

C:\Users\mcamock\Downloads\December_8Batch1\test-output\emailable-report.html

TestNG Report

TestNG Report

TestNG Report

TestNG Report

Search...

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite							
Default test	3	0	0	0	26		

Class	Method	Start	Time (ms)
Default suite			
Default test — passed			
testNGprograms.PriorityDemo	test1	1702615632484	0
	test2	1702615632485	1
	test3	1702615632479	2

Default test

testNGprograms.PriorityDemo#test1

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testNGprograms.PriorityDemo#test2

Activate Windows
Go to Settings to activate Windows.



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

Code:

New_Test.java

```
package TestNG;

import org.testng.annotations.Test;
import org.testng.annotations.BeforeClass;

import java.util.concurrent.TimeUnit;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.firefox.FirefoxDriver;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.AfterSuite;

public class New_Test {
    WebDriver wd;

    @Test(priority = 1)
    public void clickPin() {
        wd.findElement(By.linkText("PIM")).click();
        System.out.println("PIN SELECTED - priority 1");
    }

    @Test(priority = 2)
    public void clickTime() {
```



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```
wd.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/aside/nav/div[2]/ul/li[4]/a/span")).click();
    System.out.println("Time clicked - priority 2");
}

@Test(priority = 3)
public void clickMyInfo() {
    wd.findElement(By.linkText("My Info")).click();
    System.out.println("My Info clicked - priority 3");
}

@BeforeClass
public void beforeClass() {
    wd.findElement(By.name("username")).sendKeys("Admin");
    wd.findElement(By.name("password")).sendKeys("admin123");
    wd.findElement(By.cssSelector("button[type=submit]")).click();
}

@AfterClass
public void afterClass() {

wd.findElement(By.xpath("/html/body/div/div[1]/div[1]/header/div[1]/div[2]/ul/li/span/p")).click();
    wd.findElement(By.linkText("Logout")).click();
}

@BeforeSuite
public void wdLoad() {
    System.setProperty("webdriver.gecko.driver", "C:\\Selenium\\geckodriver.exe");
    wd = new FirefoxDriver();
    wd.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
    wd.manage().window().maximize();
    wd.manage().timeouts().implicitlyWait(10, TimeUnit.SECONDS);
}

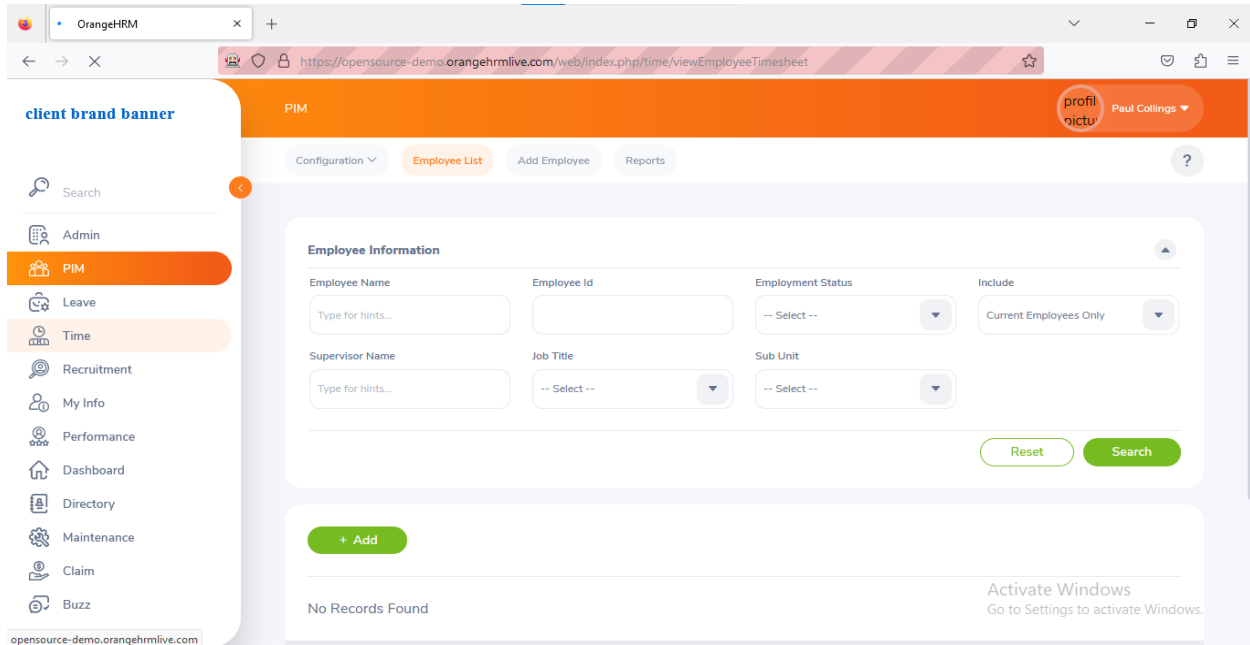
@AfterSuite
public void afterSuite() {
    wd.close();
}
}
```




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Output:



```

JavaScript error: , line 0: uncaught exce
PASSED: TestNG.New_Test.clickTime
PASSED: TestNG.New_Test.clickMyInfo
PASSED: TestNG.New_Test.clickPin
  
```

```

clickTime (1.4
clickMyInfo (1
  
```

```

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

```

1702629432397 Marionette INFO Stopped listening
Dynamically enable window occlusion 1
  
```

```

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



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**Aim: Demonstrate regression testing using TestNG framework.
Use at least two classes e.g., ClassADemo and ClassBDemo
to demonstrate regression testing by adding few test cases in
existing test suite.**

Code:

ActionDemo.java

Package Testing

```
import org.testng.annotations.Test;
public class ClassADemo
{
    @Test
    public void test1()
    {
        System.out.println("Test 1 executed");
    }
    @Test
    public void test2()
    {
        System.out.println("Test 2 executed");
    }
    @Test
    public void test3()
    {
        System.out.println("Test 3 executed");
    }
}
```

Create new class

```
package Testing;
import org.testng.annotations.Test;
public class ClassBDemo
{
    @Test
```



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```
public void f1()
{
    System.out.println("f1 executed");
}
@Test
public void f2()
{
    System.out.println("f2 executed");
}
@Test
public void f3()
{
    System.out.println("f3 executed");
}
}
```

testing.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
<suite name="Suite">
<test thread-count="5" name="regression">
<classes>
<class name="Testing.ClassBDemo"/>
<class name="Testing.ClassADemo"/>
</classes>
</test> <!-- regression -->
</suite> <!-- Suite -->
```



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Output:

Project Name	Login to gmail
Created by	
Date of creation	
Date of revision	

Test case 1	Test Objective	Precondition	Steps:	Test data	Expected result	Post	Actual Result	Status
TC-01	Successful login to Gmail	1. A valid Gmail account to login to be available 2. A supporting browser	1. Navigate to gmail.com		Inbox of registered user is loaded	For first time users personal information is displayed	Inbox of registered user is loaded	Pass
			2. In the email field, enter a username	"A valid username"				
			3. Click on Next button					
			4. Enter a password in the password field	"A correct Password"				
			5. Click on Sign In button					
TC-02	Error Message of Wrong password	1. A valid Gmail account to login to be available 2. A supporting browser	1. Navigate to gmail.com		Wrong password message	Try Again	Wrong password Try again message	Pass
			2. In the email field, enter a username	"A valid username"				
			3. Click on Next button					
			4. Enter a password in the password field	"A correct Password"				
			5. Click on Sign In button					
TC-03	Error Message of unregistered username	1. A valid Gmail account to login to be available 2. A supporting browser	1. Navigate to gmail.com		Error message of unregistered email account	Try Again	Error message Couldn't find your google account	Pass
			2. In the email field, enter a username	"A valid username"				
			3. Click on Next button					
			4. Enter a password in the password field	"A correct Password"				
			5. Click on Sign In button					