3)

a)

**package** com.ecommerce.test;

**import** java.time.Duration;

**import** java.util.List;

**import** java.util.concurrent.TimeUnit;

**import** org.openqa.selenium.Alert;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.JavascriptExecutor;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.WindowType;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.support.ui.ExpectedConditions;

**import** org.openqa.selenium.support.ui.Select;

**import** org.openqa.selenium.support.ui.WebDriverWait;

**public** **class** AdvancedLocatingElements {

**public** **static** **void** main(String[] args) **throws** InterruptedException {

// Basic configuration

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

demoAdvancedXPathCSSSelector(driver);

**static** **void** demoAdvancedXPathCSSSelector(WebDriver driver) {

String baseUrl = "File:///C:\\Users\\jhon\\eclipse-workspace3\\hello-selinium\\src\\main\\resources\\test.html";

// String baseUrl =

// "https://github.com/awtraining1/sl/blob/main/PHASE5/afternoon/hello-selenium/src/main/resources/test.html";

driver.get(baseUrl);

List<WebElement> inputAdminElements = driver.findElements(By.*xpath*("//input[contains(@id, 'admin')]"));

System.***out***.println("inputAdminElements has " + inputAdminElements.size());// 3

// Same as above but using CSS selectors

List<WebElement> inputAdminElementsUsingCSSSelectors = driver

.findElements(By.*cssSelector*("input[id\*='admin']"));

System.***out***.println("inputAdminElementsUsingCSSSelectors has " + inputAdminElementsUsingCSSSelectors.size());// 3

List<WebElement> inputAdminElementsUsingCSSSelectors2 = driver.findElements(By.*cssSelector*("input[id$='xyz']"));

System.***out***.println("input whose ids end with xyz " + inputAdminElementsUsingCSSSelectors2.size()); // 2

WebElement h4SecondChildInsideDiv = driver.findElement(By.*cssSelector*("div[id='eCommerce'] h4:nth-child(2)"));

System.***out***.println("h4SecondChildInsideDiv text is " + h4SecondChildInsideDiv.getText()); // h4 second

// Locate and Process multi select list

WebElement selectMonthElement = driver.findElement(By.*id*("month"));

Select selectMonth = **new** Select(selectMonthElement);

System.***out***.printf("\n selectMonth.isMultiple() = %s", selectMonth.isMultiple());

selectMonth.selectByIndex(0);

selectMonth.selectByIndex(3);

selectMonth.selectByIndex(6);

List<WebElement> allMonthsSelected = selectMonth.getAllSelectedOptions();

**for** (WebElement monthOption : allMonthsSelected) {

System.***out***.printf("\n option selected = %s", monthOption.getText());

}

}

}

}

2)test.html

<html>

<head>

<title>Hello</title>

<script>

**function** myDblClickFunction() {

document.getElementById("demo-messages").textContent = "You double clicked me!";

document.getElementById("demo-messages").style.color = "red";

}

**function** mySglClickFunction() {

document.getElementById("demo-messages").textContent = "You single clicked me!";

document.getElementById("demo-messages").style.color = "blue";

}

</script>

</head>

<body bgcolor=*"#ffeeee"*>

DEMO-MESSAGES:

<span id=*"demo-messages"*>GETTING STARTED</span>

<p id=*"xyz"*>Hello world!</p>

Alerts The simplest of these is referred to as an alert, which shows a

custom message, and a single button which dismisses the alert, labelled

in most browsers as OK. It can also be dismissed in most browsers by

pressing the close button, but this will always do the same thing as

the OK button.

<a href=*"javascript:alert('hello alerts!')"*>See an example alert</a>

<br>

<br>

<div id=*"modal"*>

<iframe id=*"myframe"* name=*"myframe"*

src=*"https://seleniumhq.github.io"* width=*1200* height=*400*>

</iframe>

</div>

<br>

<br>

<button id=*"dblButton"* ondblclick="myDblClickFunction()"

onclick="mySglClickFunction()">Double-click me or Single click me</button>

<h3>0 Some h3 text</h3>

<form>

<input type=*"text"* id=*"admin"*> <br>

<input type=*"text"* id=*"admin123"*> <br>

<input type=*"text"* id=*"adminxyz"*>

<br> <input type=*"text"* id=*"adm"*> <br>

</form>

<h3>1 Some h3 text</h3>

<h3>2 Some h3 text</h3>

<h3>3 Some h3 text</h3>

<div id=*'eCommerce'*>

<h4>h4 first</h4>

<h4>h4 second</h4>

</div>

<select multiple aria-label=*"Month"* name=*"birthday\_month"* id=*"month"*

title=*"Month"* class=*"\_9407 \_5dba \_9hk6 \_8esg"* size=*"12"*>

<option

value=*"1"*>Jan</option>

<option value=*"2"*>Feb</option>

<option value=*"3"*>Mar</option>

<option value=*"4"*>Apr</option>

<option value=*"5"*>May</option>

<option value=*"6"*>Jun</option>

<option value=*"7"* selected=*"1"*>Jul</option>

<option value=*"8"*>Aug</option>

<option value=*"9"*>Sep</option>

<option value=*"10"*>Oct</option>

<option value=*"11"*>Nov</option>

<option value=*"12"*>Dec</option>

</select>

<input type=*"text"* id=*"WWWWxyz"*>

</body>

</html>

Output:





