1. package Day20;

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.interactions.Actions;

import java.time.Duration;

public class ActionClassDemo {

public static void main(String[] args) {

// Set the ChromeDriver path

System.setProperty("webdriver.chrome.driver", "path/to/chromedriver");

// Initialize WebDriver

WebDriver driver = new ChromeDriver();

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

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

try {

// Navigate to buttons demo page

driver.get("https://demoqa.com/buttons");

// Initialize Actions class

Actions actions = new Actions(driver);

// 1. Double click

WebElement doubleClickBtn = driver.findElement(By.id("doubleClickBtn"));

actions.doubleClick(doubleClickBtn).perform();

WebElement doubleClickMsg = driver.findElement(By.id("doubleClickMessage"));

System.out.println("Double Click Message: " + doubleClickMsg.getText());

// 2. Right click

WebElement rightClickBtn = driver.findElement(By.id("rightClickBtn"));

actions.contextClick(rightClickBtn).perform();

WebElement rightClickMsg = driver.findElement(By.id("rightClickMessage"));

System.out.println("Right Click Message: " + rightClickMsg.getText());

// 3. Single click (third button)

WebElement clickBtn = driver.findElement(By.xpath("//button[text()='Click Me'][3]"));

actions.click(clickBtn).perform();

WebElement dynamicClickMsg = driver.findElement(By.id("dynamicClickMessage"));

System.out.println("Single Click Message: " + dynamicClickMsg.getText());

// Extra Challenge: Drag & Drop

driver.get("https://demoqa.com/dragabble");

WebElement dragElement = driver.findElement(By.id("dragBox"));

// Drag by offset (x=100, y=50)

actions.dragAndDropBy(dragElement, 100, 50).perform();

System.out.println("Drag and drop performed successfully.");

} catch (Exception e) {

e.printStackTrace();

} finally {

// Close the browser

driver.quit();

}

}

}

2. package Day20;

import java.time.Duration;

import org.openqa.selenium.Alert;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

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

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

public class AlertsDemo {

public static void main(String[] args) {

// Set ChromeDriver path

System.*setProperty*("webdriver.chrome.driver", "path/to/chromedriver");

// Initialize WebDriver

WebDriver driver = new ChromeDriver();

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

driver.manage().timeouts().implicitlyWait(Duration.*ofSeconds*(10));

try {

driver.get("https://demoqa.com/alerts");

// 1. Simple alert

driver.findElement(By.id("alertButton")).click();

Alert simpleAlert = driver.switchTo().alert();

System.***out***.println("Simple Alert Text: " + simpleAlert.getText());

simpleAlert.accept();

// 2. Confirm box - dismiss

driver.findElement(By.id("confirmButton")).click();

Alert confirmAlert = driver.switchTo().alert();

System.***out***.println("Confirm Alert Text: " + confirmAlert.getText());

confirmAlert.dismiss(); // click 'Cancel'

// 3. Prompt box - input text and accept

driver.findElement(By.id("promtButton")).click();

Alert promptAlert = driver.switchTo().alert();

System.***out***.println("Prompt Alert Text: " + promptAlert.getText());

promptAlert.sendKeys("John Doe");

promptAlert.accept();

// 4. Extra Challenge: Alert after 5 seconds

driver.findElement(By.id("timerAlertButton")).click();

WebDriverWait wait = new WebDriverWait(driver, Duration.*ofSeconds*(10));

Alert delayedAlert = wait.until(ExpectedConditions.alertIsPresent());

System.***out***.println("Delayed Alert Text: " + delayedAlert.getText());

delayedAlert.accept();

} catch (Exception e) {

e.printStackTrace();

} finally {

driver.quit();

}

}

}

3. package Day20;

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.Alert;

import org.openqa.selenium.interactions.Actions;

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

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

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

import java.time.Duration;

import java.util.List;

public class CombinedScenarioDemo {

public static void main(String[] args) {

// Set ChromeDriver path

System.setProperty("webdriver.chrome.driver", "path/to/chromedriver");

WebDriver driver = new ChromeDriver();

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

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

try {

// Navigate to DemoQA select & alerts page

driver.get("https://demoqa.com");

// =============================

// 1. Action Class: Drag and Drop

// =============================

driver.get("https://demoqa.com/dragabble");

WebElement dragElement = driver.findElement(By.id("dragBox"));

// Create Actions instance

Actions actions = new Actions(driver);

// Drag the element by offset

actions.dragAndDropBy(dragElement, 150, 50).perform();

System.out.println("Dragged element to new position.");

// =============================

// 2. Select Class: Multi-Select Dropdown

// =============================

driver.get("https://demoqa.com/select-menu");

WebElement multiSelect = driver.findElement(By.id("cars"));

Select select = new Select(multiSelect);

if(select.isMultiple()){

select.selectByVisibleText("Volvo");

select.selectByVisibleText("Opel");

select.selectByIndex(2); // Audi

// Print selected options

List<WebElement> selectedOptions = select.getAllSelectedOptions();

System.out.println("Selected options:");

for(WebElement option : selectedOptions){

System.out.println(option.getText());

}

}

// =============================

// 3. Alerts: Prompt Alert

// =============================

driver.get("https://demoqa.com/alerts");

driver.findElement(By.id("promtButton")).click();

WebDriverWait wait = new WebDriverWait(driver, Duration.ofSeconds(10));

Alert promptAlert = wait.until(ExpectedConditions.alertIsPresent());

String message = "Hello Selenium!";

promptAlert.sendKeys(message);

promptAlert.accept();

// Verify the result on page

WebElement promptResult = driver.findElement(By.id("promptResult"));

System.out.println("Prompt Result Text: " + promptResult.getText());

} catch(Exception e){

e.printStackTrace();

} finally {

driver.quit();

}

}

}

4. package Day20;

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.support.ui.Select;

import java.time.Duration;

import java.util.List;

public class SelectClassDemo {

public static void main(String[] args) {

// Set ChromeDriver path

System.setProperty("webdriver.chrome.driver", "path/to/chromedriver");

// Initialize WebDriver

WebDriver driver = new ChromeDriver();

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

driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));

try {

// Navigate to Select Menu demo page

driver.get("https://demoqa.com/select-menu");

// 1. Old-style dropdown: Select "Blue"

WebElement oldDropdown = driver.findElement(By.id("oldSelectMenu"));

Select selectOld = new Select(oldDropdown);

selectOld.selectByVisibleText("Blue");

System.out.println("Selected color from old-style dropdown: " + selectOld.getFirstSelectedOption().getText());

// 2. Multi-select dropdown: Select multiple options

WebElement multiSelect = driver.findElement(By.id("cars")); // multi-select dropdown

Select selectMulti = new Select(multiSelect);

if (selectMulti.isMultiple()) {

selectMulti.deselectAll(); // clear any previous selection

selectMulti.selectByVisibleText("Green");

selectMulti.selectByVisibleText("Yellow");

selectMulti.selectByVisibleText("Black");

System.out.println("Selected options in multi-select:");

List<WebElement> selectedOptions = selectMulti.getAllSelectedOptions();

for (WebElement option : selectedOptions) {

System.out.println("- " + option.getText());

}

} else {

System.out.println("Dropdown is not multi-select.");

}

// Extra Challenge: Select using index

selectOld.selectByIndex(3); // Example: 0-based index

System.out.println("Selected color by index: " + selectOld.getFirstSelectedOption().getText());

} catch (Exception e) {

e.printStackTrace();

} finally {

driver.quit();

}

}

}