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Assignment 1 – Action Class
Objective: Practice mouse and keyboard interactions.
Scenario:
Open the DemoQA site → https://demoqa.com/buttons
Perform:
Double Click on "Double Click Me" button.
Right Click on "Right Click Me" button.
Single Click on the third "Click Me" button.
Print the text messages that appear after each click action.
Program:
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;
public class Task1Day20 {
  public static void main(String[] args) throws InterruptedException {
    WebDriver driver = new ChromeDriver();
    driver.get("https://demoga.com/buttons");
    driver.manage().window().maximize();
    Thread.sleep(2000);
    Actions act = new Actions(driver);
    // Double Click
    WebElement doubleClickBtn =
driver.findElement(By.id("doubleClickBtn"));
    act.doubleClick(doubleClickBtn).perform();
```

```
String doubleClickMsg =
driver.findElement(By.id("doubleClickMessage")).getText();
    System.out.println("Double Click Message: " + doubleClickMsg);
    Thread.sleep(2000);
    // Right Click
    WebElement rightClickBtn = driver.findElement(By.id("rightClickBtn"));
     act.contextClick(rightClickBtn).perform();
     String rightClickMsg =
driver.findElement(By.id("rightClickMessage")).getText();
    System.out.println("Right Click Message: " + rightClickMsg);
    Thread.sleep(2000);
    // Single Click
     WebElement clickMeBtn =
driver.findElement(By.xpath("//button[text()='Click Me']"));
     act.click(clickMeBtn).perform();
     String dynamicClickMsg =
driver.findElement(By.id("dynamicClickMessage")).getText();
    System.out.println("Single Click Message: " + dynamicClickMsg);
    Thread.sleep(3000);
    driver.quit();
  }
}
```

Extra Challenge:

Visit https://demoqa.com/dragabble and drag the element from its position to another point.

Program:

```
import org.openga.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.interactions.Actions;
public class ActionDropable {
      public static void main(String[] args) throws InterruptedException {
            WebDriver driver=new ChromeDriver();
            driver.get("https://demoqa.com/droppable");
            driver.manage().window().maximize();
            Actions act=new Actions(driver);
            WebElement source=driver.findElement(By.id("draggable"));
            WebElement target=driver.findElement(By.id("droppable"));
            act.dragAndDrop(source, target).perform();
      }
}
```

Assignment 2 – Select Class

Objective: Work with dropdowns and multi-select options.

Scenario:

```
Open the DemoQA site → https://demoqa.com/select-menu
Perform:
Select "Blue" from the old-style dropdown.
Select multiple options from the multi-select dropdown (e.g., "Green",
"Yellow", "Black").
Verify and print the selected options.
Extra Challenge:
Select options using both selectByVisibleText and selectByIndex.
Program:
import org.openga.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) {
    System.setProperty("webdriver.chrome.driver", "path/to/chromedriver");
    WebDriver driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
    try {
```

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

```
// 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());
       // 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
```

Assignment 3 – Alerts

Objective: Handle different types of alerts.

Scenario:

Open the DemoQA site \rightarrow https://demoqa.com/alerts

Perform:

Click the button to see an alert, accept it.

Click the "On button click, confirm box will appear" button, dismiss the alert.

Click the "Prompt Box" button, enter your name, and accept it.

Capture and print the alert messages before accepting/dismissing.

Extra Challenge:

Wait dynamically for the alert that appears after 5 seconds, then accept it.

Program:

import org.openqa.selenium.Alert;

import org.openqa.selenium.By;

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
public class AlertsDemo {
      public static void main(String[] args) throws InterruptedException {
            WebDriver driver=new ChromeDriver();
            driver.get("https://demoqa.com/alerts");
            Thread.sleep(5000);
            driver.manage().window().maximize();
            WebElement
samplealert=driver.findElement(By.id("alertButton"));
            samplealert.click();
            Thread.sleep(5000);
            Alert alert=driver.switchTo().alert();
            alert.accept();
            WebElement
timealert=driver.findElement(By.id("timerAlertButton"));
            timealert.click();
            Thread.sleep(7000);
            Alert alert1=driver.switchTo().alert();
            alert1.dismiss();
            Thread.sleep(3000);
```

```
WebElement
confirmalert=driver.findElement(By.id("confirmButton"));
            confirmalert.click();
            Thread.sleep(2000);
            Alert alert12=driver.switchTo().alert();
            alert12.dismiss();
            Thread.sleep(2000);
            WebElement
promptalert=driver.findElement(By.id("promtButton"));
            promptalert.click();
            Thread.sleep(2000);
            Alert alert123=driver.switchTo().alert();
            alert123.sendKeys("okay");
            alert123.accept();
      }
}
```

Assignment 4 - Combined Scenario

Objective: Integrate all three concepts.

Scenario:

Open a practice site (you can use https://demoqa.com or https://the-internet.herokuapp.com/).

Steps:

Drag and drop an element (Action Class). Select multiple options from a dropdown (Select Class). Trigger a prompt alert, enter a message, and verify it on the page. **Program:** import org.openqa.selenium.WebDriver; import org.openqa.selenium.WebElement; import org.openqa.selenium.chrome.ChromeDriver; import org.openga.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) { System.setProperty("webdriver.chrome.driver", "path/to/chromedriver"); WebDriver driver = new ChromeDriver(); driver.manage().window().maximize(); driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10)); try {

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

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

// Drag and Drop

```
Actions actions = new Actions(driver);
       actions.dragAndDropBy(dragElement, 150, 50).perform();
       System.out.println("Dragged element to new position.");
       // 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);
         List<WebElement> selectedOptions = select.getAllSelectedOptions();
         System.out.println("Selected options:");
         for(WebElement option : selectedOptions){
            System.out.println(option.getText());
         }
       }
       // Prompt Alert
       driver.get("https://demoga.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);
```

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

```
promptAlert.accept();
    WebElement promptResult =
driver.findElement(By.id("promptResult"));
    System.out.println("Prompt Result Text: " + promptResult.getText());
} catch(Exception e) {
    e.printStackTrace();
} finally {
    driver.quit();
}
```