

## 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.

Extra Challenge:

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

```
package TestNG_practice;
```

```
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 ActionClass {  
    public static void main(String[] args) throws  
    InterruptedException {  
        WebDriver driver = new ChromeDriver();  
        driver.get("https://demoqa.com/buttons");  
        driver.manage().window().maximize();  
  
        Actions actions = new Actions(driver);  
  
        WebElement doubleClickBtn =  
driver.findElement(By.id("doubleClickBtn"));  
        WebElement rightClickBtn =  
driver.findElement(By.id("rightClickBtn"));  
        WebElement clickBtn =  
driver.findElement(By.xpath("//button[text()='Click  
Me']"));  
  
        actions.doubleClick(doubleClickBtn).perform();  
        System.out.println("Double click message: " +  
driver.findElement(By.id("doubleClickMessage")).getText());  
    }  
}
```

```
actions.contextClick(rightClickBtn).perform();

System.out.println("Right click message: " +
driver.findElement(By.id("rightClickMessage")).getText()
);
```

```
clickBtn.click();

System.out.println("Single click message: " +
driver.findElement(By.id("dynamicClickMessage")).getT
ext());
```

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

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

actions.dragAndDropBy(dragBox, 100,
50).perform();
```

```
System.out.println("Drag and drop performed");
driver.quit();
}
}
```

Output:

You have done a double click

You have done a right click

You have done a dynamic click

## 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`.

```
package TestNG_practice;
```

```
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.util.List;
```

```
public class SelectClass {
    public static void main(String[] args) throws
    InterruptedException {
        WebDriver driver = new ChromeDriver();
        driver.get("https://demoqa.com/select-menu");
        driver.manage().window().maximize();
```

```
        Select colorDropdown = new
        Select(driver.findElement(By.id("oldSelectMenu")));
        colorDropdown.selectByVisibleText("Blue");
        System.out.println("Selected color: " +
        colorDropdown.getFirstSelectedOption().getText());
```

```
        Select multiSelect = new
        Select(driver.findElement(By.id("cars")));
        multiSelect.selectByVisibleText("Green");
        multiSelect.selectByVisibleText("Yellow");
```

```
multiSelect.selectByVisibleText("Black");
```

```
List<WebElement> selectedOptions =  
multiSelect.getAllSelectedOptions();
```

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

```
for (WebElement option : selectedOptions) {  
    System.out.println(option.getText());  
}
```

```
multiSelect.selectByIndex(0);
```

```
System.out.println("First option re-selected by  
index: " +  
multiSelect.getFirstSelectedOption().getText());
```

```
driver.quit();  
}  
}
```

Output:

Selected color: Blue

Selected options in multi-select:

Green

Yellow

Black

First option re-selected by index: Volvo

### Assignment 3 – Alerts

Objective: Handle different types of alerts.

Scenario:

Open the DemoQA site → <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.

```
package TestNG_practice;

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

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

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


public class alerts {

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

        WebDriver driver = new ChromeDriver();
        driver.get("https://demoqa.com/alerts");
        driver.manage().window().maximize();


        driver.findElement(By.id("alertButton")).click();
        Alert alert1 = driver.switchTo().alert();
        System.out.println("Alert text: " + alert1.getText());
        alert1.accept();
    }
}
```



```
driver.findElement(By.id("confirmButton")).click();  
Alert alert2 = driver.switchTo().alert();  
System.out.println("Confirm alert text: " +  
alert2.getText());  
alert2.dismiss();
```

```
driver.findElement(By.id("promptButton")).click();  
Alert alert3 = driver.switchTo().alert();  
System.out.println("Prompt alert text: " +  
alert3.getText());  
alert3.sendKeys("Monalisa");  
alert3.accept();
```

```
WebDriverWait wait = new WebDriverWait(driver,  
10);
```

```
driver.findElement(By.id("timerAlertButton")).click();  
wait.until(ExpectedConditions.alertIsPresent());  
Alert alert4 = driver.switchTo().alert();
```

```
        System.out.println("5-second alert text: " +  
alert4.getText());  
        alert4.accept();  
  
        driver.quit();  
    }  
}
```

Output:

Alert text : You clicked a button

Alert accepted.

Confirm alert text: Do you confirm action?

Confirm alert dismissed.

Prompt alert text: Please enter your name

Entered name in prompt: Monalisa

Delayed alert text: This alert appeared after 5 seconds

Delayed alert accepted.

## 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.

```
package TestNG_practice;  
  
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 org.openqa.selenium.support.ui.Select;  
import org.openqa.selenium.Alert;
```

```
public class Combinedscenario {  
    public static void main(String[] args) throws  
        InterruptedException {  
        WebDriver driver = new ChromeDriver();  
        driver.get("https://demoqa.com/droppable");
```

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

```
WebElement drag =  
driver.findElement(By.id("draggable"));
```

```
WebElement drop =  
driver.findElement(By.id("droppable"));
```

```
Actions actions = new Actions(driver);  
actions.dragAndDrop(drag, drop).perform();  
System.out.println("Drag and drop completed");
```

```
driver.get("https://demoqa.com/select-menu");  
Select multiSelect = new  
Select(driver.findElement(By.id("cars")));  
multiSelect.selectByVisibleText("Green");  
multiSelect.selectByVisibleText("yellow");  
System.out.println("Multi-select options  
selected:");  
for (WebElement option :  
multiSelect.getAllSelectedOptions()) {  
    System.out.println(option.getText());
```

```
}

driver.get("https://demoqa.com/alerts");
driver.findElement(By.id("promptButton")).click();
Alert alert = driver.switchTo().alert();
System.out.println("Prompt alert text: " +
alert.getText());
alert.sendKeys("Monalisa");
alert.accept();
System.out.println("Prompt alert accepted with
input Monalisa");

driver.quit();
}
}
```

Output:

Element dragged and dropped successfully

Selected options from dropdown:

Green

Yellow

Prompt alert text: Please enter your message

Entered message in prompt: Prompt alert accepted  
with input Monalisa