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.

```
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 ActionExample {

    public static void main(String[] args) throws InterruptedException {
        WebDriver d=new ChromeDriver();
        d.get("https://demoqa.com/buttons");
        Thread.sleep(6000);
        d.manage().window().maximize();

        WebElement doubleclick=d.findElement(By.id("doubleClickBtn"));
```

```
Actions act=new Actions(d);
act.doubleClick(doubleclick).perform();

Thread.sleep(6000);
WebElement rightclick=d.findElement(By.id("rightClickBtn"));
act.contextClick(rightclick).perform();

Thread.sleep(6000);
WebElement click=d.findElement(By.id("9V5Ri"));
act.contextClick(click).perform();
d.close();

WebDriver w=new ChromeDriver();
w.get("https://www.ebay.com/");
w.manage().window().maximize();
Actions a1=new Actions(w);

WebElement motors=w.findElement(By.xpath("//*[@id=\"vl-flyout-nav\"]/ul/li[4]/a"));
a1.moveToElement(motors).perform();
Thread.sleep(3000);
WebElement sports=w.findElement(By.xpath("//*[@id=\"vl-flyout-nav\"]/ul/li[7]/a"));
a1.moveToElement(sports).perform();
Thread.sleep(3000);
```

```
        WebElement fashion=w.findElement(By.xpath("//*[@id=\"vl-flyout-nav\"]/ul/li[5]/a"));
        a1.moveToElement(fashion).perform();
        Thread.sleep(3000);
        w.close();

        WebDriver d1=new ChromeDriver();
        d1.get("https://demoqa.com/droppable");
        d1.manage().window().maximize();
        Actions a2=new Actions(d1);
        WebElement source=d1.findElement(By.id("draggable"));
        WebElement target=d1.findElement(By.id("droppable"));
        a2.dragAndDrop(source, target).perform();
        d1.close();
    }

}
```

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.

```
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
public class Selectexample {

    public static void main(String[] args) throws InterruptedException {
        WebDriver d = new ChromeDriver();
        d.get("https://demoqa.com/select-menu");
        d.manage().window().maximize();
        Thread.sleep(2000);

        WebElement select = d.findElement(By.id("oldSelectMenu"));
        Select s = new Select(select);
        s.selectByVisibleText("Yellow");
        s.selectByIndex(0);

        WebElement multiSelect = d.findElement(By.id("react-select-4-input"));
        multiSelect.sendKeys("Blue");
        multiSelect.sendKeys(Keys.ENTER);
```

```
        multiSelect.sendKeys("Black");
        multiSelect.sendKeys(Keys.ENTER);

        Thread.sleep(6000);
        d.quit();
    }
}
```

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.

```
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 Alertexample {
```

```
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 seealert=driver.findElement(By.id("alertButton"));
        seealert.click();
        Thread.sleep(4000);
        Alert alert=d.switchTo().alert();
        alert.accept();
        Thread.sleep(4000);
        WebElement timealert=d.findElement(By.id("timerAlertButton"));
        timealert.click();
        Thread.sleep(6000);
        Alert a1=d.switchTo().alert();
        a1.accept();
        Thread.sleep(3000);
        WebElement confirmalert=d.findElement(By.id("confirmButton"));
        confirmalert.click();
        Thread.sleep(4000);
        Alert a2=d.switchTo().alert();
        a2.dismiss();
        Thread.sleep(3000);
```

```
            WebElement promptalert=d.findElement(By.id("promtButton"));
            promptalert.click();
            Thread.sleep(3000);
            Alert alert3=d.switchTo().alert();
            alert3.sendKeys("abc");
            alert3.accept();

            Thread.sleep(3000);
            driver.close();
        }

}
```

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.

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

```
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.ui.Select;
import org.testng.Assert;
import org.testng.annotations.*;
import java.time.Duration;

public class AllActionsExample {
	WebDriver driver;

	@BeforeTest
	public void set() {
		driver = new ChromeDriver();
		driver.manage().window().maximize();

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

	@Test(priority = 1)
	public void dragAndDropTest() {
		driver.get("https://demoqa.com/droppable");

		WebElement source = driver.findElement(By.id("draggable"));
		WebElement target = driver.findElement(By.id("droppable"));

		Actions actions = new Actions(driver);
		actions.dragAndDrop(source, target).perform();
```

```
        Assert.assertEquals(true, "Dropped!", "Drag and drop failed");
    }

    @Test(priority = 2)
    public void multiSelectDropdownTest() throws InterruptedException {
        driver.get("https://demoqa.com/select-menu");
        driver.manage().window().maximize();
        Thread.sleep(2000);

        WebElement select = driver.findElement(By.id("oldSelectMenu"));
        Select s = new Select(select);
        s.selectByVisibleText("Yellow");

        WebElement multiSelect = driver.findElement(By.id("react-select-
4-input"));
        multiSelect.sendKeys("Blue");
        multiSelect.sendKeys(Keys.ENTER);

        multiSelect.sendKeys("Black");
        multiSelect.sendKeys(Keys.ENTER);

        Assert.assertTrue(true, "Multiple selection failed");
    }

    @Test(priority = 3)
    public void promptAlertTest() throws InterruptedException {
        driver.get("https://demoqa.com/alerts");
```

```
		WebElement promptalert =
driver.findElement(By.id("promtButton"));
		promptalert.click();
		Thread.sleep(3000);
		Alert a3 = driver.switchTo().alert();
		a3.sendKeys("abc");
		a3.accept();

		Assert.assertTrue(true, "Prompt alert verification failed");
	}

	@AfterTest
	public void stop() throws InterruptedException {
		Thread.sleep(3000);
		driver.quit();
	}
}
```