DAY20 ASSIGNMENT

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.

ANS)

```
package Sele_package;


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;

 import org.openqa.selenium.interactions.Actions;


public class Actionclass_demo {

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

	WebDriver driver=new ChromeDriver();

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

		Thread.sleep(5000);
```

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

Actions action=new Actions(driver);


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

 action.doubleClick(doubleclick).perform();

String doubleClickMsg =
driver.findElement(By.id("doubleClickMessage")).getText();
System.out.println("DoubleClick Message: " + doubleClickMsg);


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

action.contextClick(rightclick).perform();

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

System.out.println("RightClick Message: " + rightClickMsg);

Thread.sleep(2000);


WebElement click=driver.findElement(By.xpath("//button[text()='ClickMe']"));

action.contextClick(click).perform();

String ClickMsg = driver.findElement(By.id("dynamicClickMessage")).getText();


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

Thread.sleep(3000);
```

```
        }

}
```

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.

Ans)

```
package Sele_package;


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 multi_select {


    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 {
    //select blue from oldstyleDropdown
    driver.get("https://demoqa.com/select-menu");
    WebElement oldstyleDropdown = driver.findElement(By.id("oldSelectMenu"));
    Select selectOld = new Select(oldstyleDropdown);
    selectOld.selectByVisibleText("Blue");
    System.out.println("Selected color from old-styledropdown: " +
selectOld.getFirstSelectedOption().getText());

    //multiple options from multi-selectdropdown
    WebElement multiSelectoption = driver.findElement(By.id("cars"));
    Select selectMulti = new Select(multiSelectoption);

    if (selectMulti.isMultiple()) {
        selectMulti.deselectAll();
        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.");
        }
        selectOld.selectByIndex(3);
        System.out.println("Selected color by index: " +
selectOld.getFirstSelectedOption().getText());

    } catch (Exception e)
    {
        e.printStackTrace();
    } finally
    {
        driver.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.

Ans)

```
package Sele_package;


import java.time.Duration;


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


public class Alerts_demo {


	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();
```

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

//simplealert
WebElement simplealert=driver.findElement(By.id("alertButton"));

simplealert.click();
Alert alert = wait.until(ExpectedConditions.alertIsPresent());
System.out.println("simple alert Message: " + alert.getText());
alert.accept();

//timealert
WebElement timealert=driver.findElement(By.id("timerAlertButton"));

timealert.click();
Alert alert1 = wait.until(ExpectedConditions.alertIsPresent());
System.out.println("timeralert Message: " + alert1.getText());
alert1.accept();
//confirmalert
WebElement confirmalert=driver.findElement(By.id("confirmButton"));

 confirmalert.click();
Alert alert2 = wait.until(ExpectedConditions.alertIsPresent());
 System.out.println("confirmalert Message: " +
alert2.getText());
alert2.dismiss();
//promptalert
WebElement promptalert=driver.findElement(By.id("promtButton"));

promptalert.click();
Alert alert3 = wait.until(ExpectedConditions.alertIsPresent());
System.out.println("promptalert Message: " + alert3.getText());
alert3.sendKeys("nikki");
alert3.accept();
```

```
            driver.quit();
        }

}
```

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.

Ans)

```
package Sele_package;


import java.time.Duration;

import java.util.List;


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;

import org.openqa.selenium.interactions.Actions;

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

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

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

public class action_alert{

	public static void main(String[] args) {
		WebDriver driver=new ChromeDriver();
		Actions action=new Actions(driver);
		WebDriverWait wait= new WebDriverWait(driver,Duration.ofSeconds(10));
	//drag and drop
	driver.get("https://demoqa.com/droppable");

	driver.manage().window().maximize();
	WebElement source=driver.findElement(By.id("draggable"));
	WebElement target=driver.findElement(By.id("droppable"));
	action.dragAndDrop(source, target).perform();

	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("Saab");

     select.selectByIndex(4);

     List<WebElement> selectedOptions = select.getAllSelectedOptions();
     System.out.println("Selected options:");
     for(WebElement option : selectedOptions){
```

```
            System.out.println(option.getText());
        }
    }
    //promptalert
    WebElement promptalert=driver.findElement(By.id("promtButton"));

    promptalert.click();
            //Thread.sleep(2000);
            //Alert alert123=driver.switchTo().alert();
            Alert alert3 = wait.until(ExpectedConditions.alertIsPresent());

            System.out.println("promptalert Message: " + alert3.getText());

            alert3.sendKeys("nikki");
            alert3.accept();
}


}
```