**1. What is a JavaScript Alert?**

JavaScript Alerts are popup boxes that inform users of a specific action or ask for user confirmation. There are three types of pop-ups:

1. **Alert** – Shows a simple message and an "OK" button.
2. **Confirmation** – Shows a message with "OK" and "Cancel" buttons, typically asking the user to confirm an action.
3. **Prompt** – Similar to a confirmation box but includes a text input field for the user to enter data.

**2. Handling JavaScript Alerts in Selenium**

**Step 1: Switch to the Alert**

* Selenium can handle alerts using the Alert interface. Before performing any action on the alert, we need to switch the WebDriver’s control to the alert.

**Code Example:**

java

**// Switch to alert**

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

**Step 2: Accepting the Alert**

* When an alert appears, the browser waits for the user’s response. To accept an alert (clicking the "OK" button), use:

java

**alert.accept();**

**Step 3: Dismissing the Alert**

* If you want to cancel an alert (clicking the "Cancel" button on a confirmation box), use:

java

**alert.dismiss();**

**Step 4: Extracting Alert Text**

* Sometimes, you need to retrieve the message displayed in the alert box. This can be done using:

java

**String alertMessage = alert.getText();**

**System.out.println("Alert message: " + alertMessage);**

**Step 5: Handling Prompt Box**

* A prompt box requires user input. You can send text to a prompt using:

java

**alert.sendKeys("Input text");**

**alert.accept();**