

## Handling Alerts using Selenium

### What is Alert:

1. Alerts are JavaScript elements.
2. They are used to grab the attention of the user
3. They usually appear at the centre-top of the browser window.
4. Alerts are not windows; hence they don't have minimise, maximise or close button
5. Only one alert can be present on the webpage at a time.
6. User have to handle the alert to perform other operations on the web page.

### There are 3 types of alerts:

#### 1. Simple Alert:

- When we want to give an important message to the user, then we can use Simple Alert.
- Simple alert can have only message and Ok button.
- Simple alert can be created using alert() function of JavaScript
- alert() function don't return anything



#### 2. Confirmation Alert:

- When we want user to confirm the latest action, then we can use Confirmation Alert.
- Confirmation alerts have message, Ok button and Cancel button only.



#### 3. Prompt Alert:

- Prompt alert is used to take some information from user and to grab his/her attention.
- Prompt alerts are created using prompt(String msg, String defaultValue) function of JavaScript.
- prompt() function returns the value entered by user.
- Prompt alerts can have Message, input box, Ok Button and Cancel button



### How to Handle Alerts:

- We can handle alerts using 'Alert' interface of Selenium
- To handle alert, we need to switch onto the alert using:
  - `driver.switchTo().alert();`
- To switch on Alert, we have `alert()` method in `TargetLocator` inner interface of `WebDriver` interface.

### Methods of Alert interface

1. `accept();` It is used to click on Ok button
2. `dismiss();` It is used to click on Cancel button
3. `sendKeys(String input);` It is used to send some value to the text boxes of Alert
4. `getText();` It is used to get the text of message.

### Example:

```
public class HandlingAlert {
    public static void main(String[] args) {
        WebDriverManager.chromedriver().setup();
        RemoteWebDriver driver=new ChromeDriver();
        driver.get("http://testingshastra.com/");

        driver.findElement(By.xpath("//a[contains(text(),'Assignments')]")).click();
        driver.findElement(By.xpath("//a[contains(text(),' simple alert')]")).click();
        driver.findElement(By.name("YourName")).sendKeys("Avinash");
        driver.findElement(By.tagName("button")).click();

        Alert alert=driver.switchTo().alert();
        System.out.println(alert.getText());
        alert.accept();
    }
}
```