

# Selenium JavaScriptExecutor – Complete Guide

JavaScriptExecutor is used in Selenium to execute JavaScript directly in the browser when standard Selenium actions fail or are insufficient.

## 1. Highlight Element

Used for debugging and demo purposes.

```
 JavascriptExecutor js = (JavascriptExecutor) driver;
 WebElement element = driver.findElement(By.id("login"));

 js.executeScript(
     "arguments[0].style.border='3px solid red'",
     element
 );
```

## 2. Scroll Operations

- 1 Scroll by pixels
- 2 Scroll to bottom of page
- 3 Scroll to a specific element

```
// Scroll by pixels
js.executeScript("window.scrollBy(0,500)");

// Scroll to bottom
js.executeScript("window.scrollTo(0, document.body.scrollHeight)");

// Scroll to element
js.executeScript(
    "arguments[0].scrollIntoView(true);",
    element
);
```

## 3. Click Using JavaScript

Used when ElementClickInterceptedException occurs.

```
js.executeScript(
    "arguments[0].click();",
    element
);
```

## 4. Set Value Using JavaScript

```
js.executeScript(
    "arguments[0].value='admin';",
    element
);
```

## 5. Get Page Information

```
String title = js.executeScript(
    "return document.title;").toString();

String url = js.executeScript(
    "return document.URL;").toString();
```

## **Best Practices**

- 1 Avoid overusing JavaScriptExecutor
- 2 Prefer Selenium actions + waits first
- 3 Use JS mainly for scroll, highlight, and edge cases

Interview Tip: JavaScriptExecutor is commonly used to bypass UI synchronization issues and interact directly with the DOM.