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Handling Frames and iFrames - Covers new commands introduced in Selenium 4 (Selenium 4 - Session 20)

- What are iframes?
 - iframe is one of the tags available in HTML
 - Using iframe we can embed another HTML page in a HTML page.
 - Practical Demonstration
 - Examples of applications using iframe:
 - W3Schools
- Difference between frame and iframe
 - frames divide the web page into multiple sections, where each section can load a separate HTML document.
 - Example of applications using frames:
 - Java 8 API pages
 - iframes are used in HTML pages, to embed other HTML pages anywhere in the HTML document.
- We get NoSuchElementException, if we don't switch to iFrames/frames and perform operations on any UI element inside an iframe.
 - Practical Demonstration - <https://the-internet.herokuapp.com/iframe>
 - How to find-out whether the required UI element is inside a frame
 - Different possible reasons for getting a NoSuchElementException
 - Switch to a frame and performing operation on any UI element inside the frame
 - `switchTo().frame()`
- Different ways we can switch to the frames
 - Using id locator of frame
 - Practical Demonstration - <https://the-internet.herokuapp.com/iframe>
 - Using name locator of frame
 - Practical Demonstration - <https://docs.oracle.com/javase/8/docs/api/>
 - Using WebElement of a frame
 - Example: <https://blogpendingtasks.blogspot.com/p/switchtoframeusingwebelement.html>
 - Using index of a frame
 - Finding number of frames on the page
 - <https://the-internet.herokuapp.com/iframe>
 - `driver.findElements(By.tagName("iframe")).size()`
 - Switching to a frame using index 0 when there is only one frame on the page
 - <https://the-internet.herokuapp.com/iframe>

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- Nested Frames
 - Frame inside another frame
 - Example: <https://letcode.in/frame>
- Parent, Child and Sibling Frames
 - https://the-internet.herokuapp.com/nested_frames
 - `driver.switchTo().parentFrame();`
- Switching to the frame using index when there are multiple frames available on the page
 - Finding number of frames on the page
 - <https://docs.oracle.com/javase/8/docs/api/>
 - `driver.findElements(By.tagName("iframe")).size()`
 - Finding the index of the frame in which the required UI element is available