**How to handle windows/Tabs/Frames in Selenium**

**Window /Tab handling**

* To work on tab/ windows apart from parent tab in selenium, you need to switch to specific tab/ window.
* current\_window\_handle - Returns handle of the current window.
* window\_handles - Returns the handles of all windows within the current session.
* switch\_to.window() – Function used to switch to window/ tab

based on the window handle value.

**Selenium 4 new functions**

* switch\_to.new\_window('window') – Open new window
* switch\_to.new\_window(tab) – Open tab window

**Frame/Iframe handling**

* Switch\_to\_frame(name) – Switch to frame based the provided name
* Switch\_to\_frame(id) – Switch to frame based the provided id
* switch\_to\_frame(webelement) - Switch to frame based the webelement
* switch\_to\_default\_content() - To come out of frame

**Code snippet**

def test\_1():  
 opts = ChromeOptions()  
 opts.add\_experimental\_option("detach", True)  
 driver = webdriver.Chrome(ChromeDriverManager().install(), chrome\_options=opts)  
 driver.get(  
 "https://www.vista.adp.com/vista/index.html?TARGET=-SM-https:%2F%2Fwww.vista.adp.com%2Fess4%2F&REASON=INVALIDCREDENTIALS")  
  
 driver.get("https://www.globalsqa.com/demo-site/frames-and-windows/#iFrame")  
 driver.maximize\_window()  
  
 driver.switch\_to.frame("globalSqa");  
 driver.find\_element(By.CSS\_SELECTOR,"img[alt='Selenium Online Training']").click()  
 driver.switch\_to.default\_content()  
  
 print("text: ",driver.find\_element(By.CSS\_SELECTOR,"a[title='Demo Testing Site']").text)  
  
  
 time.sleep(3)  
 current\_handle= driver.current\_window\_handle  
 print("current\_handle: ",current\_handle)  
  
 driver.find\_element(By.LINK\_TEXT,"Privacy").click()  
 handles= driver.window\_handles  
 driver.switch\_to.window(handles[1])  
  
 print("Title: ",driver.title)  
  
 driver.switch\_to.window(handles[0])  
  
 print("Title: ", driver.title)  
  
 driver.switch\_to.new\_window('window')  
 driver.get("https://www.google.com")  
  
 driver.switch\_to.new\_window('tab')  
 driver.get("https://www.google.com")