

## Practical 1: Google Search Test Objective: Verify Google search works automatically.

```

1  from selenium import webdriver
2  from selenium.webdriver.common.by import By
3  from selenium.webdriver.common.keys import Keys
4  import time
5
6  # Initialize the Chrome WebDriver
7  driver = webdriver.Chrome()
8
9  # Navigate to Google
10 driver.get("https://www.google.com")
11
12 # Locate the search box and enter the query
13 search_box = driver.find_element(By.NAME, "q")
14 search_box.send_keys("Software Quality Assurance")
15 search_box.send_keys(Keys.RETURN)
16
17 # Wait for the results to load
18 time.sleep(3)
19
20 # Check if the page title contains all expected keywords
21 page_title = driver.title.lower()
22 expected_keywords = ["software", "quality", "assurance"]
23
24 if all(keyword in page_title for keyword in expected_keywords):
25     print("✅ Test Passed: Search results loaded successfully.")
26 else:
27     print("❌ Test Failed: Search results did not load as expected.")
28     print("Page title was:", driver.title)
29
30 # Wait for user input before closing the browser
31 input("Press Enter to close the browser...")
32
33 # Close the browser
34 driver.quit()
35

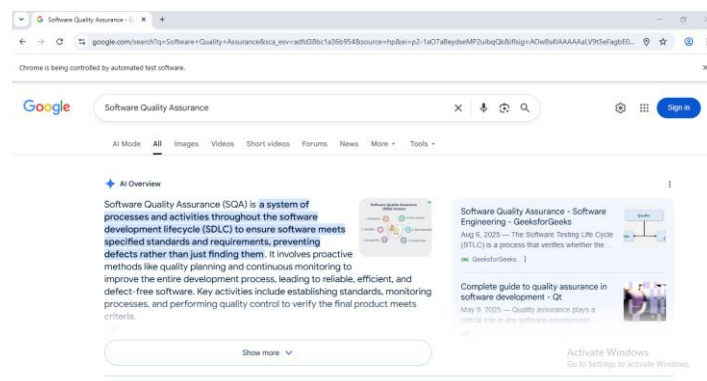
```

```
PS C:\Users\student.lab1\Music\aaa> & "C:/Program Files/Python312/python.exe" c:/Users/student.lab1/Music/aaa/sq.py
```

```

DevTools listening on ws://127.0.0.1:51811/devtools/browser/1842f910-4a3c-419e-8a4a-db99d7891d5e
✅ Test Passed: Search results loaded successfully.
Press Enter to close the browser...WARNING: All log messages before absl::InitializeLog() is called are written to STDERR
I0000 00:00:1756721214.588489    7744 voice_transcription.cc:58] Registering VoiceTranscriptionCapability
[10352:11316:0901/153655.230:ERROR:google_apis/gcm/engine/registration_request.cc:291] Registration response error message: DEPRECATED_ENDPOINT
Created TensorFlow Lite XNNPACK delegate for CPU.
Attempting to use a delegate that only supports static-sized tensors with a graph that has dynamic-sized tensors (tensor#-1 is a dynamic-sized tensor).
[7664:4884:0901/153706.252:ERROR:net/socket/ssl_client_socket_impl.cc:914] handshake failed; returned -1, SSL error code 1, net_error -202
[7664:4884:0901/153708.411:ERROR:net/socket/ssl_client_socket_impl.cc:914] handshake failed; returned -1, SSL error code 1, net_error -202
[7664:4884:0901/153708.443:ERROR:net/socket/ssl_client_socket_impl.cc:914] handshake failed; returned -1, SSL error code 1, net_error -202
[10352:11316:0901/153720.479:ERROR:google_apis/gcm/engine/registration_request.cc:291] Registration response error message: DEPRECATED_ENDPOINT

```



## Practical 2: Login Function Test Example: <https://practicetestautomation.com/practice-test-login/>

Username: student Password: Password123

```

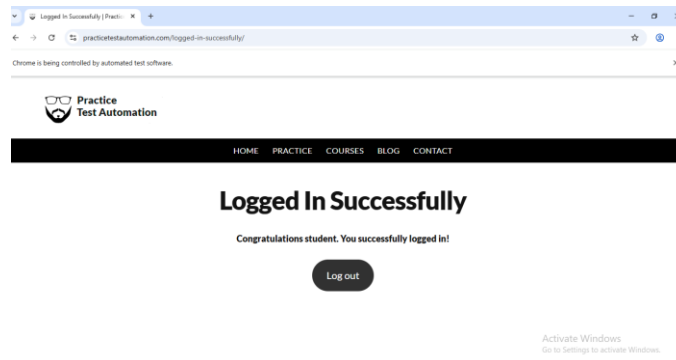
1 from selenium import webdriver
2 from selenium.webdriver.common.by import By
3 import time
4
5 # Initialize the Chrome WebDriver
6 driver = webdriver.Chrome()
7
8 # Open the login page
9 driver.get("https://practicetestautomation.com/practice-test-login/")
10 time.sleep(2) # Wait for the page to load
11
12 # Enter username
13 driver.find_element(By.ID, "username").send_keys("student")
14
15 # Enter password
16 driver.find_element(By.ID, "password").send_keys("Password123")
17
18 # Click the login button
19 driver.find_element(By.ID, "submit").click()
20 time.sleep(2) # Wait for the next page to load
21
22 # Retrieve and print the page heading
23 heading = driver.find_element(By.TAG_NAME, "h1").text
24 print(f"Page heading: {heading}")
25
26 # Wait for user input before closing the browser
27 input("Press Enter to close the browser...")
28
29 # Close the browser
30 driver.quit()
31

```

```

C:\Users\student.lab1\Music>cmd /c "C:\Program Files\Python312\python.exe" c:/Users/student.lab1/Music/aaa/test.py
DevTools listening on ws://127.0.0.1:51908/devtools/browser/8c74997c-bbd1-47ef-91a3-6d719bd445a0
[4828:11072:8901/154128.740:ERROR:components/page_load_metrics/browser/page_load_metrics_update_dispatcher.cc:195] Invalid first_paint 3.15 s for first_meaningful_paint 3.138 s
WARNING: All log messages before absl::InitializeLog() is called are written to STDERR
10000 00:00:1756723401.739435 12092 voice_transcription.cc:50] Registering VoiceTranscriptionCapability
[4828:11072:8901/154122.770:ERROR:components/page_load_metrics/browser/page_load_metrics_update_dispatcher.cc:195] Invalid first_paint 3.15 s for first_meaningful_paint 3.138 s
[4828:11072:8901/154122.884:ERROR:components/page_load_metrics/browser/page_load_metrics_update_dispatcher.cc:195] Invalid first_paint 3.15 s for first_meaningful_paint 3.138 s
[4828:11072:8901/154122.905:ERROR:components/page_load_metrics/browser/page_load_metrics_update_dispatcher.cc:195] Invalid first_paint 3.15 s for first_meaningful_paint 3.138 s
[4828:1612:8901/154122.360:ERROR:google_epis/gmengine/registration_request.cc:291] Registration response error message: DEPRECATED_ENDPOINT
[4828:1612:8901/154122.281:ERROR:google_epis/gmengine/vms_client.cc:700] Error code: 401 Error message: Authentication failed: wrong_secret
[4828:1612:8901/154122.281:ERROR:google_epis/gmengine/vms_client.cc:702] Failed to log in to GCM, resetting connection.
[4828:11072:8901/154122.340:ERROR:components/page_load_metrics/browser/page_load_metrics_update_dispatcher.cc:195] Invalid first_paint 3.15 s for first_meaningful_paint 3.138 s
[4828:11072:8901/154122.487:ERROR:components/page_load_metrics/browser/page_load_metrics_update_dispatcher.cc:195] Invalid first_paint 3.15 s for first_meaningful_paint 3.138 s
[4828:14472:1000/154122.642:ERROR:components/page_load_metrics/browser/page_load_metrics_update_dispatcher.cc:195] Invalid first_paint 3.15 s for first_meaningful_paint 3.138 s

```



## Task 03-Adjust this above-mentioned code to the orange HRM login function

```

orange.py > ...
4
5 # Initialize the Chrome WebDriver
6 driver = webdriver.Chrome()
7
8 # Navigate to the OrangeHRM login page
9 driver.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login")
10 time.sleep(3) # Wait for the page to fully load
11
12 # Enter username
13 username_input = driver.find_element(By.CSS_SELECTOR, "input[name='username']")
14 username_input.send_keys("Admin")
15
16 # Enter password
17 password_input = driver.find_element(By.CSS_SELECTOR, "input[name='password']")
18 password_input.send_keys("admin123")
19
20 # Click the login button
21 login_button = driver.find_element(By.CSS_SELECTOR, "button[type='submit']")
22 login_button.click()
23 time.sleep(3) # Wait for the dashboard to load
24
25 # Retrieve and print the dashboard heading
26 heading = driver.find_element(By.CLASS_NAME, "oxd-topbar-header-breadcrumb-module").text
27 print(f"Page heading: {heading}")
28
29 # Wait for user input before closing the browser
30 input("Press Enter to close the browser...")
31
32 # Close the browser
33 driver.quit()
34

```

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GIT LENS
KeyboardInterrupt
PS C:\Users\student.lab1\Music\aaa> & "C:/Program Files/Python312/python.exe" c:/Users/student.lab1/Music/aaa/orange.py
DevTools listening on ws://127.0.0.1:52822/devtools/browser/3470f301-7c84-4ea7-8588-5c3a863fb83
WARNING: All log messages before absl:InitializeLog() is called are written to STDERR
10000 00:00:1756721610.898107 11188 voice_transcription.cc:58] Registering VoiceTranscriptionCapability
[540:5676:0901/154331.503:ERROR:google_api_gcm_vengine\registration_request.cc:291] Registration response error message: PHONE_REGISTRATION_ERROR
[540:5676:0901/154331.504:ERROR:google_api_gcm_vengine\registration_request.cc:291] Registration response error message: PHONE_REGISTRATION_ERROR
[540:5676:0901/154331.578:ERROR:google_api_gcm_vengine\mcs_client.cc:700] Error code: 401 Error message: Authentication failed: wrong_secret
[540:5676:0901/154331.578:ERROR:google_api_gcm_vengine\mcs_client.cc:702] Failed to log in to GCM, resetting connection.
Page heading: Dashboard
Press Enter to close the browser...Created TensorFlow Lite XNNPACK delegate for CPU.
Attempting to use a delegate that only supports static-sized tensors with a graph that has dynamic-sized tensors (tensor#1 is a dynamic-sized tensor)
[540:5676:0901/154356.432:ERROR:google_api_gcm_vengine\registration_request.cc:291] Registration response error message: DEPRECATED_ENDPOINT

```

