**NAME : PATEL TEJAS**

**ROLLNO : 07**

**CLASS : M.Sc. CA - I**

**SUBJECT : 105 AUTOMATED TESTING FRAMEWORK**

File Programs

# Write a code to get our webpage.

import time

from selenium import webdriver # open browser

driver = webdriver.Chrome() time.sleep(5)

# Go to webpage

driver.get("D:/msc(ca)/seleninum form python-selenium.html")

time.sleep(10)

# Write a code to find an element using ID.

from selenium import webdriver

from selenium.webdriver.common.by import By # create webdriver object

driver = webdriver.Chrome() # get login page

driver.get("D:/msc(ca)/seleninum form python-selenium.html")

# get element

element = driver.find\_element(By.ID, "pswd1") # send keys

element.send\_keys("Arrays")

# Write a code to find an element using Name.

<html>

<body>

<form id="loginForm">

<input name="username" type="text" />

<input name="username" type="username" />

<input name="continue" type="submit" value="Login" />

</form>

</body>

<html>

from time import sleep

from selenium import webdriver

from selenium.webdriver.common.by import By # create webdriver object

driver = webdriver.Chrome() # get login page

driver.get("D:/msc(ca)/seleninum/loginform.html")

sleep(30)

# get element

element = driver.find\_elements(By.NAME, 'username') #print elements

print(element)

# Write a code to find an element using XPATH.

<html>

<body>

<form id="loginForm">

Username: <input name="username" type="text" /> Password: <input name="password" type="password" />

<input name="continue" type="submit" value="Login" />

</form>

</body>

<html>

# create webdriver object driver = webdriver.Chrome() # get login page

driver.get("("D:/msc(ca)/seleninum/loginform.html")

sleep(30)

# get element

login\_form = driver.find\_elements(By.XPATH, "/html/body/form[1]") login\_form = driver.find\_elements(By.XPATH, "//form[1]")

#print elements print(element)

1. **Write a code to find an element using Tag Name**. tagname.html

<html>

<body>

<h1>Welcome</h1>

<p>Site content goes here.</p>

</body>

<html>

tagname.py

from time import sleep

from selenium import webdriver

from selenium.webdriver.common.by import By # create webdriver object

driver = webdriver.Chrome() # get login page

driver.get("("D:/msc(ca)/seleninum/loginformtagname.html")

sleep(30)

# get element

element = driver.find\_elements\_by\_tag\_name("h2") #print elements

print(element)

1. **Write a code to find multiple elements**. from time import sleep

from selenium import webdriver

from selenium.webdriver.common.by import By # create webdriver object

driver = webdriver.Chrome() # get login page

driver.get("("D:/msc(ca)/seleninum/loginformtagname.html")

sleep(30)

# get element

element = driver.find\_elements\_by\_tag\_name("h2") #print elements

print(element)

# Write a code to create Action Chain Object and access using click and hold method.

import time

# import webdriver

from selenium import webdriver # import Action chains

from selenium.webdriver.common.by import By

from selenium.webdriver.common.action\_chains import ActionChains # create webdriver object

driver = webdriver.Chrome() # get Home Page

driver.get("https://dolatusha.ac.in/") # get element

element = driver.find\_element(By.LINK\_TEXT, "Departments") # create action chain object

action = ActionChains(driver) # click the item

action.click\_and\_hold(on\_element=element) # perform the operation

action.perform() time.sleep(30)

# Write a code to create Action Chain Object and access using double click method.

import time

# import webdriver

from selenium import webdriver # import Action chains

from selenium.webdriver.common.by import By

from selenium.webdriver.common.action\_chains import ActionChains # create webdriver object

driver = webdriver.Chrome() # get Home Page

driver.get("https://dolatusha.ac.in/") # get element

element = driver.find\_element(By.LINK\_TEXT, "Departments") # create action chain object

action = ActionChains(driver) # click the item

action.double\_click(on\_element=element) # perform the operation

action.perform() time.sleep(30)

# Write a code to create Action Chain Object and access using drag and drop method.

import time

# import webdriver

from selenium import webdriver

# import Action chains

from selenium.webdriver.common.by import By

from selenium.webdriver.common.action\_chains import ActionChains # create webdriver object

driver = webdriver.Chrome() # get Home Page

driver.get("https://dolatusha.ac.in/") # get source element

source\_element = driver.find\_element(By.LINK\_TEXT, "Departments") # get target element

target\_element = driver.find\_element(By.LINK\_TEXT, "Admissions") # create action chain object

action = ActionChains(driver) # click the item

action.drag\_and\_drop(source\_element, target\_element) # perform the operation

action.perform() time.sleep(30)

# Write a code to create Action Chain Object and access using Key down method.

import time

# import webdriver

from selenium import webdriver # import Action chains

from selenium.webdriver.common.by import By from selenium.webdriver.common.keys import Keys

from selenium.webdriver.common.action\_chains import ActionChains # create webdriver object

driver = webdriver.Chrome() # get Home Page

driver.get("https://dolatusha.ac.in/") # create action chain object

action = ActionChains(driver) # click the item

action.key\_down(Keys.CONTROL).send\_keys('F').key\_up(Keys.CONTROL).perfo rm()

time.sleep(30)

# Write a code to create Action Chain Object and access using key up method.

import time

# import webdriver

from selenium import webdriver # import Action chains

from selenium.webdriver.common.by import By from selenium.webdriver.common.keys import Keys

from selenium.webdriver.common.action\_chains import ActionChains # create webdriver object

driver = webdriver.Chrome() # get Home Page

driver.get("https://dolatusha.ac.in/") # create action chain object

action = ActionChains(driver) # click the item

action.key\_down(Keys.CONTROL).send\_keys('F').key\_up(Keys.CONTROL).perfo rm()

time.sleep(30)

# Write a code to create Action Chain Object and access using perform, pause, release methods.

import time

# import webdriver

from selenium import webdriver

# import Action chains

from selenium.webdriver.common.by import By

from selenium.webdriver.common.action\_chains import ActionChains # create webdriver object

driver = webdriver.Chrome() # get Home Page

driver.get("https://dolatusha.ac.in/") # get element

element = driver.find\_element(By.LINK\_TEXT, "Departments") # create action chain object

action = ActionChains(driver) # click the item

action.click(on\_element=element) action.pause(100)

# click the item

action.click(on\_element=element) # perform the operation

action.perform() time.sleep(30)

import time

# import webdriver

from selenium import webdriver # import Action chains

from selenium.webdriver.common.by import By

from selenium.webdriver.common.action\_chains import ActionChains

# create webdriver object driver = webdriver.Chrome() # get Home Page

driver.get("https://dolatusha.ac.in/") # get element

element = driver.find\_element(By.LINK\_TEXT, "Departments") # create action chain object

action = ActionChains(driver) # click the item

action.click(on\_element=element) # click the item

action.release(on\_element=element) # perform the operation

action.perform() time.sleep(30)

# Write a code to Get login page of the website, fetch user\_id, password.

from selenium import webdriver

from selenium.webdriver.common.by import By # create webdriver object

driver = webdriver.Chrome() # get login page

driver.get("("D:/msc(ca)/seleninum form python-selenium.html")

# get element

element = driver.find\_element(By.ID, "pswd1") # send keys

element.send\_keys("Password")

# Write a code to use webdriver methods like maximize\_window(), send\_keys() and close().

driver.maximize\_window()

E.g. (maxwindowpythonproject)

diver.get("https://[www.duias.ac.in/](http://www.duias.ac.in/)") driver.maximize\_window()

The code will be import time

# import webdriver

from selenium import webdriver # create webdriver object

driver = webdriver.Chrome() # get duias.website

driver.get("https://dolatusha.ac.in/") # maximize window position

driver.maximize\_window() time.sleep(30)

import time

from selenium import webdriver

from selenium.webdriver.common.by import By # create webdriver object

driver = webdriver.Chrome() # get login page

driver.get("("D:/msc(ca)/seleninum form

python-selenium.html") # get element

element = driver.find\_element(By.ID, "pswd1") # send keys

element.send\_keys("password") time.sleep(30)

driver.quit()

# Write a code to import Keys class from Selenium.webdriver.common.keys.

import time

# import webdriver

from selenium import webdriver # import Action chains

from selenium.webdriver.common.by import By from selenium.webdriver.common.keys import Keys

from selenium.webdriver.common.action\_chains import ActionChains # create webdriver object

driver = webdriver.Chrome() # get Home Page

driver.get("https://dolatusha.ac.in/") # create action chain object

action = ActionChains(driver) # click the item

action.key\_down(Keys.CONTROL).send\_keys('F').key\_up(Keys.CONTROL).perf o

rm() time.sleep(30)

# Write a code to do facebook login.

from selenium import webdriver

from selenium.webdriver.support.ui import WebDriverWait browser = webdriver.Chrome()

browser.get("[http://www.facebook.com](http://www.facebook.com/)") username = browser.find\_element\_by\_id("email") password = browser.find\_element\_by\_id("pass")

submit = browser.find\_element\_by\_id("loginbutton") username.send\_keys(["yo](mailto:you@email.com)u[@email.com](mailto:you@email.com)")

password.send\_keys("yourpassword") submit.click()

# Write a code to do gmail login.

import time

driver = webdriver.Chrome() driver.get("[http://gmail.com](http://gmail.com/)")

driver.find\_element\_by\_id("identifierId").send\_keys('your mail id') driver.find\_element\_by\_id("identifierNext").click()

time.sleep(5)

driver.find\_element\_by\_name("password").send\_keys('your password') driver.find\_element\_by\_id("passwordNext").click()

time.sleep(5)

driver.get("https://accounts.google.com/SignOutOptions?hl=en&continue=htt ps://mail.google.com/mail&service=mail")

driver.find\_element\_by\_xpath('//button[normalize-space()="Sign out"]').click() driver.close()

# Write a code to access an element using Dynamic XPATH of web page.

<html>

<body>

<p>Hello World!</p>

<div>Read More</div>

<div>Go Back</div>

</body>

</html>

import time

from selenium import webdriver

# from webdriver\_manager.chrome import ChromeDriverManager

from selenium.webdriver.chrome.service import Service as ChromeService from selenium.webdriver.common.by import By

# Setup chrome driver

driver = webdriver.Chrome() # Navigate to the url

driver.get(("D:/msc(ca)/seleninum/index.html')

# Find element by XPath expression

my\_div = driver.find\_element(By.XPATH, '/html/body/div[1]') print(my\_div.text)

time.sleep(15)

# Write a code to access an element using Dynamic CSS of web page.

<html>

<body>

<p>Hello World!</p>

<div>Read More</div>

<div class="xyz">Report</div>

<div>Next</div>

</body>

</html>

Python Program (Selenium) import time

from selenium import webdriver

# from webdriver\_manager.chrome import ChromeDriverManager

from selenium.webdriver.chrome.service import Service as ChromeService from selenium.webdriver.common.by import By

# Setup chrome driver

driver = webdriver.Chrome() # Navigate to the url

driver.get("D:/msc(ca)/seleninum /index.html') # Find element by XPath expression

my\_div = driver.find\_element(By.CSS\_SELECTOR, 'div.xyz') time.sleep(15)

# Write a code to access a dropdown menu of web page.

from selenium import webdriver import time

from selenium.webdriver.support.select import Select driver = webdriver.Chrome()

driver.implicitly\_wait(0.5) driver.get(

"("D:/msc(ca)/seleninum dropdown.html")

# identify dropdown with Select class

sel = Select(driver.find\_element("xpath", "//select[@name='RESULT\_RadioButton-9']")) # select by select\_by\_visible\_text() method sel.select\_by\_visible\_text('Afternoon')

time.sleep(10

# Write a code to upload a file using send\_keys.

import time

from selenium import webdriver

from selenium.webdriver.common.by import By # create webdriver object

driver = webdriver.Chrome() # get login page

driver.get(“ D:/msc(ca)/seleninum form python-selenium.html")

# get element

element = driver.find\_element(By.ID, "pswd1") # send keys

element.send\_keys("password") time.sleep(30)

# Write a code to display Alert message and prompt message.

# import webdriver

from selenium import webdriver # import Alert

from selenium.webdriver.common.alert import Alert # create webdriver object

driver = webdriver.Chrome()

driver.get("("D:/msc(ca)/seleninum /form1.html ")

# create alert object alert = Alert(driver) # get alert text print(alert.text)

# accept the alert alert.accept()

E.g. Prompt import time

# import webdriver

from selenium import webdriver

from selenium.webdriver.common.by import By driver = webdriver.Chrome()

driver.maximize\_window()

location = "file:// "D:/msc(ca)/seleninum/Prompt\_Alert.html"

driver.get(location)

# Click on the "studentLogin" button to generate the Prompt Alert button = driver.find\_element(By.NAME, 'studentLogin')

button.click()

# Switch the control to the Alert window obj = driver.switch\_to.alert

time.sleep(20)

obj.send\_keys("hello this a msc") time.sleep(20)

# use the accept() method to accept the alert obj.accept()

# Retrieve the message on the Alert window message = obj.text

print("Alert shows following message: " + message)

time.sleep(20) obj.accept()

# get the text returned when OK Button is clicked. txt = driver.find\_element(By.ID, 'msg')

print(txt.text)

# Write a code to make use of mouse right click and mouse DoubleClick events.

from selenium import webdriver

from selenium.webdriver.common.by import By from selenium.webdriver import ActionChains driver = webdriver.Chrome()

# url launch

driver.get("https://vnsgu.ac.in/") driver.maximize\_window()

# implicit wait time

driver.implicitly\_wait(5) # identify element

s = driver.find\_element(By.XPATH, "//\*[text()='Home']") # object of ActionChains

a = ActionChains(driver) # right click then perform

a.context\_click(s).perform()

E.g.

from selenium import webdriver import time

from selenium.webdriver.common.by import By from selenium.webdriver import ActionChains driver = webdriver.Chrome()

# implicit wait time

driver.implicitly\_wait(5) # url launch

location = "file:// ("D:/msc(ca)/seleninum/Prompt\_Alert.html"

driver.get(location) # identify element

driver.maximize\_window()

s = driver.find\_element(By.NAME, "dblClick") driver.implicitly\_wait(5)

# object of ActionChains a = ActionChains(driver) # right click then perform

a.double\_click(s).perform() # switch to alert

alrt = driver.switch\_to.alert # accept the alert print(alrt.text) time.sleep(5)

alrt.accept() time.sleep(5)

# Write a code to capture a full screen shot.

from selenium import webdriver import time

driver = webdriver.Chrome()

driver.get("<http://www.vnsgu.ac.in/>") print(driver.title)

time.sleep(5)

# capturing the screenshot at the location under D with the name snap driver.save\_screenshot('D:/msc(ca)/seleninum/snap.png')

# Write a code to use Explicit wait for a web page.

import time

# import webdriver

from selenium import webdriver

from selenium.webdriver.common.by import By

from selenium.webdriver.support.ui import WebDriverWait

from selenium.webdriver.support import expected\_conditions as EC # create webdriver object

driver = webdriver.Chrome() # get dolatusha.ac.in

driver.get("https://[www.dolatusha.ac.in/](http://www.dolatusha.ac.in/)")

# get element after explicitly waiting for 10 seconds element = WebDriverWait(driver, 10).until(

EC.presence\_of\_element\_located((By.LINK\_TEXT, "Departments"))

)

# click the element element.click() time.sleep(5)