

3) Install & explore selenium for automated testing

14/3/25

// pip install selenium // python required

a) web drivers

// pip install python3-selenium

```
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.common.keys import Keys
import time
browser = webdriver.Firefox()
```

```
browser.get('http://www.yahoo.com')
assert 'Yahoo' in browser.title
```

```
elem = browser.find_element(By.NAME, 'p')
elem.send_keys('selenium' + Keys.RETURN)
time.sleep(10)
browser.close()
browser.quit()
```

b) unit test (test.py)

```
import unittest
from selenium import webdriver

class GoogleTestCase(unittest.TestCase):
    def setup(self):
        self.browser = webdriver.Firefox()
        self.addCleanup(self.browser.quit)

    def test_page_title(self):
        self.browser.get('http://www.google.com')
        self.assertEqual('Google', self.browser.title)

if __name__ == '__main__':
    unittest.main(verbosity=2)
```

```
// run test.py -
// if self.assertIn('google') // if self.assertIn('____',
                                // self.browser.title)
OK.
```

FAILED.

c) new chrome driver.

install chrome driver for 115 + version win 64.
 then extract zip file → chromedriver → cut
 → C drive → driver (new folder) → paste chromedriver.exe.
 → chromedriver.py. (vs code)

```
from selenium import webdriver
from selenium.webdriver.chrome.service import Service
from selenium.webdriver.common.by import By
import time
```

```
chrome_driver_path = "C:\Driver\chromedriver.exe"
service = Service(executable_path=chrome_driver_path)
```

```
driver = webdriver.Chrome(service=service)
driver.get("https://www.google.com")
```

```
assert "Google" in driver.title
time.sleep(10)
driver.quit()
```

// O/P: run chrome driver.py

```
if assert "Google" ... if assert "____" (other name) ...
→ Runs smoothly, → Assertion error
// No errors
```

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