Selenium網頁自動化

一:進行安裝Selenium

```
pip install selenium
```

```
PS C:\python_File\Day06> pip install selenium
Collecting selenium
  Downloading selenium-4.10.0-py3-none-any.whl (6.7 MB)
                                            6.7/6.7 MB 3.2 MB/s eta 0:00:00
Collecting urllib3[socks]<3,>=1.26 (from selenium)
  Downloading urllib3-2.0.3-py3-none-any.whl (123 kB)
                                            123.6/123.6 kB 3.7 MB/s eta 0:00:00
Collecting trio~=0.17 (from selenium)
  Downloading trio-0.22.1-py3-none-any.whl (399 kB)
                                            399.3/399.3 kB 8.3 MB/s eta 0:00:00
Collecting trio-websocket~=0.9 (from selenium)
  Downloading trio_websocket-0.10.3-py3-none-any.whl (17 kB)
Collecting certifi>=2021.10.8 (from selenium)
  Downloading certifi-2023.5.7-py3-none-any.whl (156 kB)
                                            157.0/157.0 kB 3.1 MB/s eta 0:00:00
Collecting attrs>=20.1.0 (from trio~=0.17->selenium)
  Downloading attrs-23.1.0-py3-none-any.whl (61 kB)
                                            61.2/61.2 kB 3.4 MB/s eta 0:00:00
Collecting sortedcontainers (from trio~=0.17->selenium)
  Downloading sortedcontainers-2.4.0-py2.py3-none-any.whl (29 kB)
Collecting idna (from trio~=0.17->selenium)
  Downloading idna-3.4-py3-none-any.whl (61 kB)
                                            61.5/61.5 kB 3.2 MB/s eta 0:00:00
Collecting outcome (from trio~=0.17->selenium)
  Downloading outcome-1.2.0-py2.py3-none-any.whl (9.7 kB)
Collecting sniffio (from trio~=0.17->selenium)
  Downloading sniffio-1.3.0-py3-none-any.whl (10 kB)
Collecting cffi>=1.14 (from trio~=0.17->selenium)
  Downloading cffi-1.15.1-cp311-cp311-win_amd64.whl (179 kB)
                                            179.0/179.0 kB 3.6 MB/s eta 0:00:00
```

二:Driver 模組

取得一個標籤WebElement

```
driver.find_element(欄位,"條件")
```

取得多個標籤 WebElement List

```
driver.find_elements(欄位,"條件")
```

取得一個class名稱

```
driver.find_element(class name,"條件")
```

取得多個class名稱

```
driver.find_elements(class name,"條件")
```

取得單個連結

```
driver.find_element(link name,"條件")
```

取得多單個連結

```
driver.find_elements(link name,"條件")
```

三:Selenium基本架構

```python
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.chrome.options import Options

options=Options()
options.chrome_executable_pat="C:\python_File\Day06\chromedriver.exe"




driver=webdriver.Chrome(options=options)
driver.close()
```

查詢結果

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>

    <div class="list">

        <a href="" class="item">標籤一</a>
        <a href="" class="item">標籤二</a>
        <a href="" class="item">標籤三</a>
    </div>
</body>
</html>
```

```python
from selenium import webdriver
from selenium.webdriver.common.by import By
from selenium.webdriver.chrome.options import Options

options=Options()
options.chrome_executable_path="C:\python_File\Day06\chromedriver.exe"
driver=webdriver.Chrome(options=options)

# 連線到網頁
driver.get("http://127.0.0.1/myweb/")
tags=driver.find_elements(By.CLASS_NAME,"item")
print(tags)
driver.close()
```