

Python 程式教學-chapter 29

- · python定時排程下載
- · windows排程工具使用
- · 寫入sqlite資料庫

- 流程
- 每天定時早上6:00開啟程式
- 每10分鐘下載youbike資料
- 將資料進行分析
- 置入資料庫



• 執行畫面

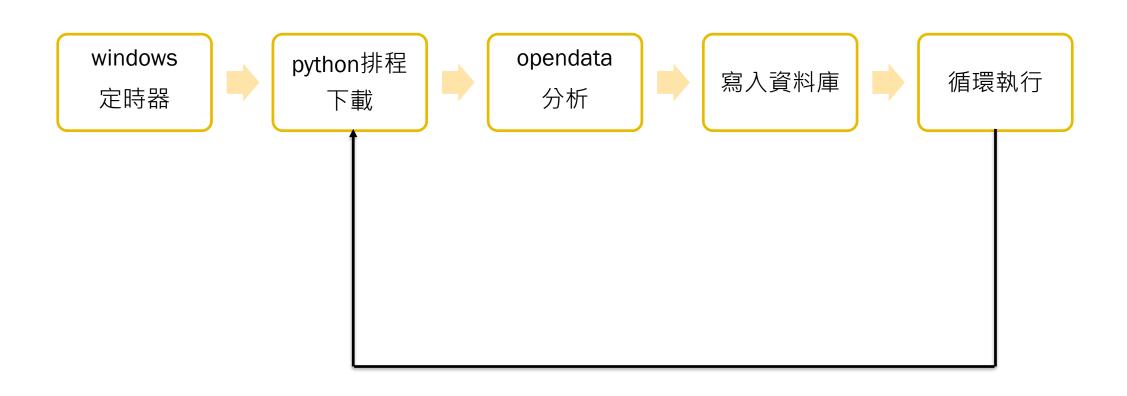
```
C:\WINDOWS\system32\cmd.exe
20191112105441
[20191112105441]
[20191112105441]
[2019111210541]
[2019-11-12 11:06:22
[2019-11-12 11:06:22
[2019-11-12 11:16:22
[2019-11-12 11:16:22
[2019-11-12 11:26:23
[2019-11-12 11:26:23
[2019-11-12 11:26:23
[2019-11-12 11:26:23
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
[2019-11-12 11:36:24
                          close
   close
完成!
2019-11-12 12:16:27
第24次
資料抓取中
20191112121341
寫入成功!
close
完成!
```



Table:	data data				₹ 🔀	3	
	date	SnO	sna .	tot	sbi	bemp	act
	過濾	過濾	過濾	過濾	過濾	過濾	過濾
1	20191111114325	1001	大鵬華城	38	4	34	1
2	20191111114320	1002	汐止火車站	56	40	15	1
3	20191111114319	1003	汐止區公所	46	31	15	1
4	20191111114322	1004	國泰綜合醫院	56	25	31	1
5	20191111114327	1005	裕隆公園	40	9	31	1
6	20191111114342	1006	捷運大坪林站…	30	2	28	1
7	20191111114324	1007	汐科火車站(北)	34	14	20	1
8	20191111114337	1008	興華公園	40	2	38	1
9	20191111114322	1009	三重國民運動…	68	0	68	1
10	20191111114339	1010	捷運三重站(3…	34	3	29	1
11	20191111114325	1011	樟樹國小	48	33	15	1
12	20191111114343	1012	金龍國小	52	3	49	1
13	20191111114330	1013	白雲國小	46	12	34	1
14	20191111114325	1014	東勢宜與活動…	52	5	45	1
15	20191111114324	1015	後港公園	40	3	37	1
16	20191111114317	1016	福營行政中心	42	6	36	1
17	20191111114317	1017	西盛公園	36	2	34	1
18	20191111114317	1018	忠誠里(北新…	40	2	38	1
19	20191111114347	1019	仁愛廣場	50	16	34	1
20	20191111114323	1020	重陽國小	42	4	38	1
21	20191111114321	1021	明志國中	50	36	14	1
22	20191111114342	1022	三重商工	64	56	7	1
23	20191111114325	1023	捷運新莊站(1…	58	7	47	1
24	20191111114316	1024	原興廣場	52	16	35	1
25	20191111114318	1025	文化白雲公園	76	7	69	1
26	20191111114326	1026	秀山國小	62	15	47	1
27	20191111114354	1027	捷運永安市場站	72	19	52	1
28	20191111114317	1028	福和國中	66	46	20	1
29	20191111114334	1029	仁愛公園	60	0	59	1
30	20191111114327	1030	中和公園	46	4	40	1
31	20191111114316	1031	金龍公園	52	14	38	1
32	20191111114319	1032	重陽公園	50	16	34	1
33	20191111114329	1033	捷運三民高中…	78	16	62	1
M 4 1 - 34 / 204165						轉到: 1	

• 流程圖





■ 定時下載新北市youbike資料





youbike-json資料格式



Minsheng St. Intersection", "aren": "No. 45, Fuxing Rd., Sanxia Dist .","bemp":"36","act":"1"},{"sno":"1643","sna":"環河西大漢街口" ,"tot":"40","sbi":"20","sarea":"板橋區","mday":"20191111152333" ,"lat":"25.031830","lng":"121.461200","ar":"環河西路四段/大漢街 (西南側)","sareaen":"Bangiao Dist.","snaen":"Huanhe W. & Dahan Intersection", "aren": "Sec. 4, Huanhe W. Rd./Dahan St., Banqiao Dist .","bemp":"20","act":"1"},{"sno":"1644","sna":"十三行博物館","tot" :"46","sbi":"9","sarea":"八里區","mday":"20191111152344","lat":"25 .156970","lng":"121.405880","ar":"博物館路183號(對面)","sareaen" :"Bali Dist.", "snaen": "Shihsanhang Museum of Archaeology", "aren" :"No. 183, Museum Rd., Bali Dist.(opposite)", "bemp": "36", "act": "1"} ,{"sno":"1645","sna":"莒光國小","tot":"30","sbi":"9","sarea" :"板橋區","mday":"20191111152341","lat":"25.025650","lng":"121 .474650", "ar": "雙十路2段47巷8弄6號(對面)", "sareaen": "Banqiao Dist." ,"snaen": "Juguang Elementary School", "aren": "No. 6, Aly. 8, Ln. 47, Sec. 2, Shuangshi Rd., Banqiao Dist.(opposite)", "bemp": "21", "act" :"1"},{"sno":"1646","sna":"林口郵局","tot":"38","sbi":"4","sarea" :"林口區","mday":"20191111152324","lat":"25.066670","lng":"121 .364530","ar":"文化二路一段8號(前)","sareaen":"Linkou Dist." ,"snaen": "Linkou Post Office", "aren": "No. 8, Sec. 1, Wenhua 1st Rd ., Linkou Dist.", "bemp": "33", "act": "1"}, {"sno": "1647", "sna" :"竹林山觀音寺","tot":"34","sbi":"10","sarea":"林口區","mday" :"20191111152326","lat":"25.084520","lng":"121.389830","ar":"竹林路 /竹林路421巷口","sareaen":"Linkou Dist.","snaen":"Zhulinshan Guanyin Temple", "aren": "Zhulin Rd./Ln. 421, Zhulin Rd., Linkou Dist .","bemp":"23","act":"1"},{"sno":"1648","sna":"青潭河濬公園","tot" :"30","sbi":"6","sarea":"新店區","mday":"20191111152326","lat":"24 .950910","lng":"121.547400","ar":"新鳥路一段11弄11號(對面)" ,"sareaen":"Xindian Dist.","snaen":"Qingtan Riverside Park","aren" :"No. 11, Aly. 11, Sec. 1, Xinwu Rd., Xindian Dist.(opposite)" ,"bemp":"23","act":"1"},{"sno":"1653","sna":"民有公園","tot":"40" ,"sbi":"4","sarea":"中和區","mday":"20191111152320","lat":"25 .008680","lng":"121.474750","ar":"中山路3段118-6號(對面)","sareaen"

Col: 164493

object ▶ result ▶ records ▶ success : ☑ true : 0 ▼ result {5} # 8 resource id: 382000000A-000352-001 : 0 limit : 2000 H 🗆 total: 585 : 0 ▶ fields [14] ▼ records [585] H 🗆 ▶ 0 {14} : 0 {14} H 🗆 {14} {14} # 0 {14} {14} {14} : 0 {14} ▶ 10 {14} ▶ 11 {14} ▶ 12 {14}

主資料區段

• 複製連結



https://data.ntpc.gov.tw/api/v1/rest/datastore/382000000 A-000352-001

■ 資料區段

data["result"]["records"]

■ 擷取每個站點主要資料



sno(站點代號)、sna(中文場站名稱)、tot(場站總停車格)、sbi(可借車位數)、sarea(中文場站區域)、mday(資料更新時間)、lat(緯度)、lng(經度)、ar(中文地址)、sareaen(英文場站區域)、snaen(英文場站名稱)、aren(英文地址)、bemp(可還空位數)、act(場站是否暫停營運)

0 {14}

sno : 1001

sna :大鵬華城

tot : 38

sbi : 1

sarea:新店區

mday : 20191111152326

lat : 24.99116

lng : 121.53398

ar : 新北市新店區中正路700巷3號

sareaen : Xindian Dist.

snaen: Dapeng Community

aren : No. 3, Lane 700 Chung Cheng Road, Xindian

District

bemp: 37

act : 1

擷取

sno, sna, tot, sbi, mday, bemp, act

■ 測試下載



```
# -*- coding: utf-8 -*-
Created on Mon Nov 11 15:48:06 2019
@author: User
import ison
import requests
url='http://data.ntpc.gov.tw/api/v1/rest/datastore/382000000A-000352-001'
resp=requests.get(url)
youbike datas=json.loads(resp.text)
youbike datas=youbike datas['result']['records']
print(youbike datas)
```

```
'24.975720', 'lng': '121.329380', 'ar': '鳳吉一街186號(對面)',
'sareaen': 'Yingge Dist.', 'snaen': 'Fengfu Park', 'aren': 'No. 186,
Fengji 1st St., Yingge Dist.(opposite)', 'bemp': '18', 'act': '1'},
{'sno': '1690', 'sna': '漳和國中', 'tot': '50', 'sbi': '27', 'sarea':
'中和區', 'mday': '20191111154815', 'lat': '25.002410', 'lng':
'121.505000', 'ar': '廣福路30號(對面)', 'sareaen': 'Zhonghe Dist.',
'snaen': 'Zhanghe Junior High School', 'aren': 'No. 30, Guangfu Rd.,
Zhonghe Dist.(opposite)', 'bemp': '22', 'act': '1'}, {'sno': '1693',
'sna': '國立師範大學林口校區(測試站)', 'tot': '16', 'sbi': '4', 'sarea'
'林口區', 'mday': '20191111154832', 'lat': '25.068040', 'lng':
'121.397950', 'ar': '仁愛路1段2號(校門前自行車停車區)', 'sareaen':
'Linkou Dist.', 'snaen': 'NTNU Linkou Campus (Test Station)', 'aren':
'No. 395, Yanji St., Tucheng Dist.(opposite)', 'bemp': '12', 'act':
'1'}, {'sno': '1696', 'sna': '三重商工(後竹圍街)', 'tot': '36', 'sbi':
'13', 'sarea': '三重區', 'mday': '20191111154828', 'lat': '25.070310',
'lng': '121.479760', 'ar': '中正北路165巷53號(後竹圍街路側停車格)',
'sareaen': 'Sanchong Dist.', 'snaen': 'San-Chung Commercial and
Industrial Vocational High School(Houzhuwei St.)', 'aren': 'No. 53,
Ln. 165, Zhongzheng N. Rd., Sanchong Dist.(opposite)', 'bemp': '23',
'act': '1'}]
```

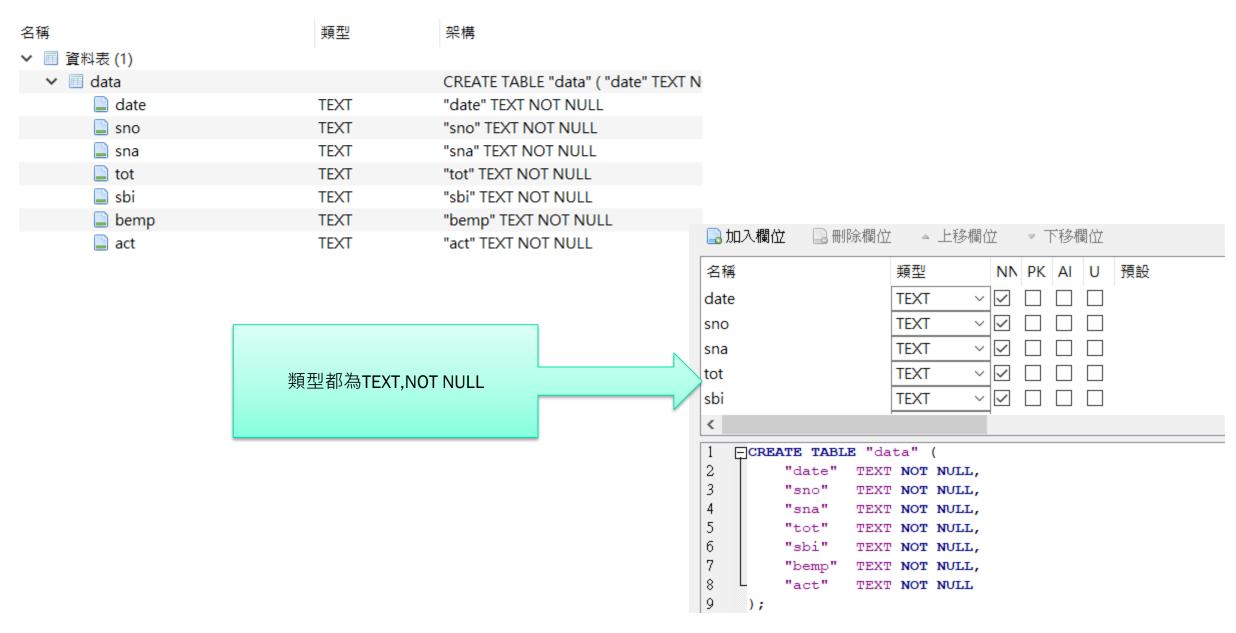
■ 查找主要區段(儲存成二維資料)



```
#columns=['日期','站點編號','站點','總車數','可借數','可還數','是否營運']
datas=[]
for data in youbike datas:
   temp data=[data['mday'],data['sno'],data['sna'],data['tot'],data['sbi'],
             data['bemp'],data['act']]
   datas.append(temp data)
                                                      ['20191111154838', '1184', '中和地政事務所', '28', '11', '16', '1'],
   print(temp_data)
                                                      ['20191111154820', '1185', '華夏科技大學', '42', '0', '41', '1'],
                                                      ['20191111154832', '1186', '同興公園', '34', '0', '34', '1'],
print(datas)
                                                      ['20191111154827', '1187', '新五泰國民運動中心', '30', '5', '25', '1'],
                                                      ['20191111154845', '1188', '溪洲公園停車場', '34', '4', '30', '1'],
                                                      ['20191111154827', '1189', '崑崙公園', '38', '1', '37', '1'],
                                                      ['20191111154839', '1190', '捷運海山站(3號出口)', '74', '5', '69', '1'],
                                                      ['20191111154832', '1191', '興化公園', '38', '0', '38', '1'],
                                                      ['20191111154830', '1192', '潤泰社區', '36', '18', '18', '1'],
                                                      ['20191111154826', '1193', '西盛館', '30', '2', '27', '1'],
                                                      ['20191111154823', '1194', '秀朗成功路口', '38', '5', '33', '1'],
                                                      ['20191111154817', '1195', '板橋國中', '54', '14', '39', '1'],
                                                      ['20191111154828', '1196', '永豐公園活動中心', '32', '6', '26', '1'],
                                                      ['20191111154832', '1197', '義仁市民活動中心', '36', '2', '34', '1'],
                                                      ['20191111154836', '1198', '鶯歌國中', '34', '25', '9', '1'],
                                                      ['20191111154822', '1199', '捷運迴龍站(3號出口)', '60', '35', '23', '1'],
                                                      ['20191111154827', '1200', '捷運先嗇宮站(2號出口)', '50', '15', '35', '1'],
                                                      ['20191111154822', '1201', '鶯歌火車站(仁愛路)', '58', '8', '50', '1'],
                                                      ['20191001100555', '1202', '建國育英路口', '50', '0', '0', '0'],
                                                      ['20191111154815', '1203', '鶯歌陶瓷老街', '44', '20', '20', '1'],
```

■ 建立資料庫(youbike.db)





■ 測試寫入資料庫



```
import sqlite3
try:
    conn=sqlite3.connect('youbike.db')
    print('open')
    curosr=conn.cursor()
    sqlstr='insert into data values("{}","{}","{}","{}","{}","{}","{}");'
    for data in datas:
        curosr.execute(sqlstr.format(data[0],data[1],data[2],data[3],data[4],
                                     data[5],data[6]))
    conn.commit()
except Exception as e:
    print(e)
finally:
    conn.close()
    print('close')
```

使用insert into 資料表 寫入資料(都為字串) Table: 🔳 data 🔻 💈 🔓 🖨

	date	sno	sna	tot	sbi	bemp	act
	過濾	過濾	過濾	過濾	過濾	過濾	過濾
1	20191111155825	1001	大鵬華城	38	0	38	1
2	20191111155817	1002	汐止火車站	56	39	16	1
3	20191111155819	1003	汐止區公所	46	21	25	1
4	20191111155821	1004	國泰綜合醫院	56	19	37	1
5	20191111155827	1005	裕隆公園	40	12	28	1
6	20191111155843	1006	捷運大坪林…	30	4	26	1
7	20191111155823	1007	汐科火車站(北)	34	13	21	1
8	20191111155837	1008	興華公園	40	2	38	1
9	20191111155822	1009	三重國民運…	68	0	68	1
10	20191111155835	1010	捷運三重站(3…	34	9	23	1
11	20191111155824	1011	樟樹國小	48	34	14	1
12	20191111155844	1012	金龍國小	52	7	45	1
13	20191111155829	1013	白雲國小	46	6	40	1
14	20191111155825	1014	東勢宜興活…	52	2	49	1
15	20191111155824	1015	後港公園	40	0	40	1
16	20191111155818	1016	福營行政中心	42	12	30	1
17	20191111155817	1017	西盛公園	36	6	30	1
18	20191111155817	1018	忠誠里(北新…	40	3	37	1
19	20191111155844	1019	仁愛廣場	50	11	39	1
20	20191111155822	1020	重陽國小	42	13	28	1
21	20191111155821	1021	明志國中	50	22	28	1
22	20191111155843	1022	三重商工	64	50	13	1
23	20191111155825	1023	捷運新莊站(1…	58	12	44	1
24	20191111155817	1024	原興廣場	52	12	39	1
25	20191111155819	1025	文化白雲公園	76	5	71	1
26	20191111155826	1026	秀山國小	62	14	48	1
27	20101111155041	1027	住海 3 位士	70	22	20	1



• 搜尋顯示



```
import sqlite3
try:
    conn=sqlite3.connect('youbike.db')
    print('open')
    curosr=conn.cursor()
    sqlstr='select * from data;'
    datas=list(curosr.execute(sqlstr))
    print(datas)
except Exception as e:
    print(e)
finally:
    conn.close()
```

```
('20191111155824', '1664', '捷運板新站', '82', '35', '47', '1'),
('20191111155825', '1665', '三抱竹', '34', '14', '18', '1'),
('20191111155829', '1667', '慈愛公園', '30', '2', '28', '1'),
('20191111155819', '1668', '汐止火車站停車場', '60', '26', '34', '1'),
('20191111155816', '1670', '樹林藝文綜合行政大樓', '60', '42', '18', '1'),
('20191111155819', '1673', '民權社區活動中心', '34', '2', '30', '1'),
('20191111155819', '1674', '捷運新埔站(5號出口)', '56', '43', '12', '1'),
('20191111155819', '1676', '國中二甲路口', '30', '21', '9', '1'),
('20191111155840', '1679', '芳洲八路', '30', '11', '18', '1'),
('20191003082927', '1680', '後竹圍市民活動中心', '32', '0', '0', '1'),
('20191111155826', '1684', '金美國小', '36', '13', '21', '1'),
('20191111155818', '1685', '金山八德街', '38', '16', '19', '1'),
('20191111155819', '1687', '寶橋路78巷口', '44', '2', '42', '1'),
('20191111155838', '1688', '鳳福公園', '40', '20', '18', '1'),
('20191111155815', '1690', '漳和國中', '50', '27', '22', '1'),
('20191111155832', '1693', '國立師範大學林口校區(測試站)', '16', '4', '12',
'1'), ('20191111155828', '1696', '三重商工(後竹圍街)', '36', '13', '23',
'1')]
```



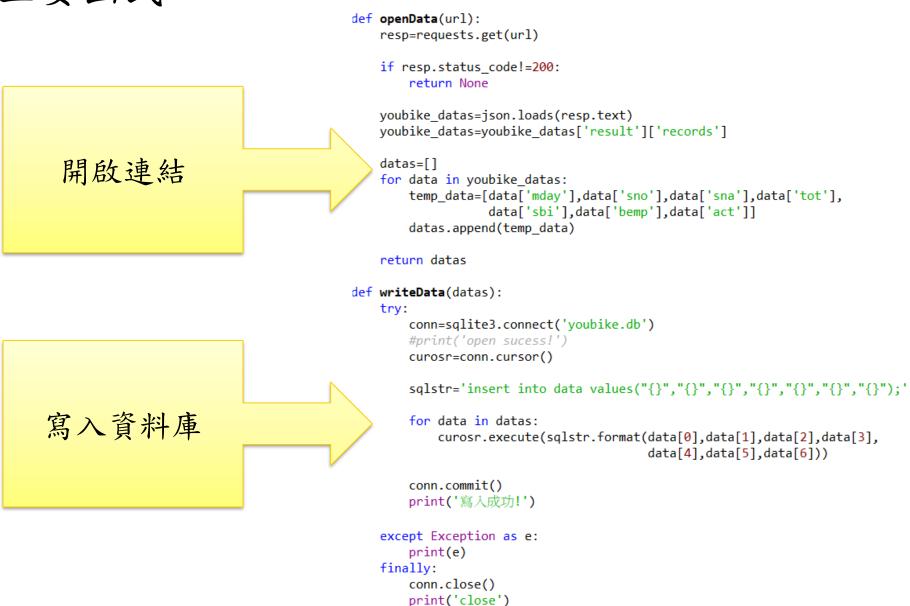
python

- 1. 開啟網頁連結(回傳二維資料)
- 2. 寫入資料庫(寫入二維資料)
- 3. 讀出資料庫



• 主要函式





import requests

import sqlite3

■ 使用排程模組



import sched
import time

1. 產生一個排程器

s = sched.scheduler(time.time, time.sleep)

2. 使用enter(設定秒數跟要執行的函式)

s. enter(delay, priority, action, arguments)

3. 執行

s. run()

schedule.enter(delay, priority, action, arguments) python

- delay→代表多少秒後執行這個action任務。
- priority → 第二個引數priority 是優先順序,0代表優先順序 最高,1次之,2次次之。
- action→第三個引數就是你要執行的任務,可以簡單的理解成你要執行的函式的函式名。
- arguments→第四個引數是你要傳入的這個定時執行的action 為函式名的函式的引數,用tuple宣告參數不管幾個都使用() 或單一參數(參數1,)。

• 範例

```
python
```

```
import time
import sched
import datetime
#生成scheduler物件
s = sched.scheduler(time.time, time.sleep)
def print_time(count):
    print(count,datetime.datetime.now())
count=0
s.enter(1, 0, print_time, (count,))
count+=1
s.enter(3, 1, print_time, (count,))
s.run()
```

0 2019-11-12 17:09:25.758972 1 2019-11-12 17:09:27.758967

• 循環測試



```
import time
    import sched
    import datetime
    #生成scheduler物件
    s = sched.scheduler(time.time, time.sleep)
    def print time(sec):
        global count
        print(count,datetime.datetime.now())
        if count<5:
            s.enter(sec, 0, print_time, (sec,))
            count+=1
    count=0
    sec=5
    s.enter(sec, 0, print_time, (sec,))
    s.run()
ch29_7.py
```

在函式內在呼叫一次

```
0 2019-11-12 17:20:51.122852
1 2019-11-12 17:20:56.126661
2 2019-11-12 17:21:01.136293
3 2019-11-12 17:21:06.140573
4 2019-11-12 17:21:11.142316
5 2019-11-12 17:21:16.149070
```

■ 排程結合(主程式宣告成函式)



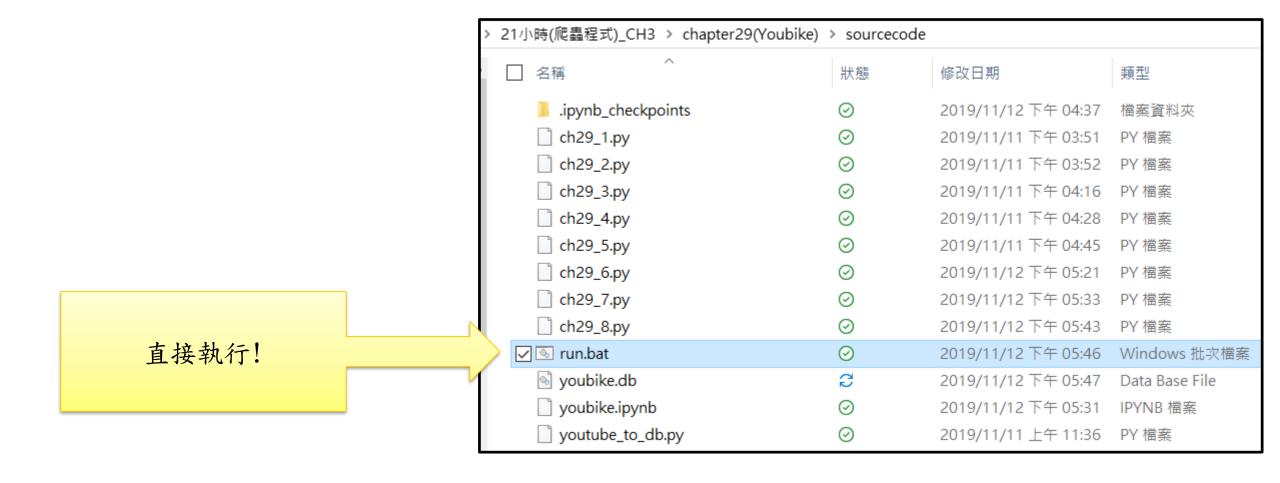
將主程式區段宣告成函式

準備傳入sched當參數使用

```
import time
import sched
def youbike_crawer(sec):
    print(datetime.datetime.now().strftime('%Y-%m-%d %H:%M:%S'))
    print('資料抓取中')
    datas=openData(url)
    if datas!=None:
       writeData(datas)
        print('完成!')
    else:
        print('資料有誤')
    if sec!=None:
        s.enter(sec, 0, youbike_crawer, argument=(sec,))
url='http://data.ntpc.gov.tw/api/v1/rest/datastore/382000000A-000352-001'
s = sched.scheduler(time.time, time.sleep)
youbike crawer(None)
s.enter(5, 0, youbike_crawer, argument=(5,))
s.run()
```

■ 撰寫bat批次執行檔





■ run. bat內容



cd c:\temp

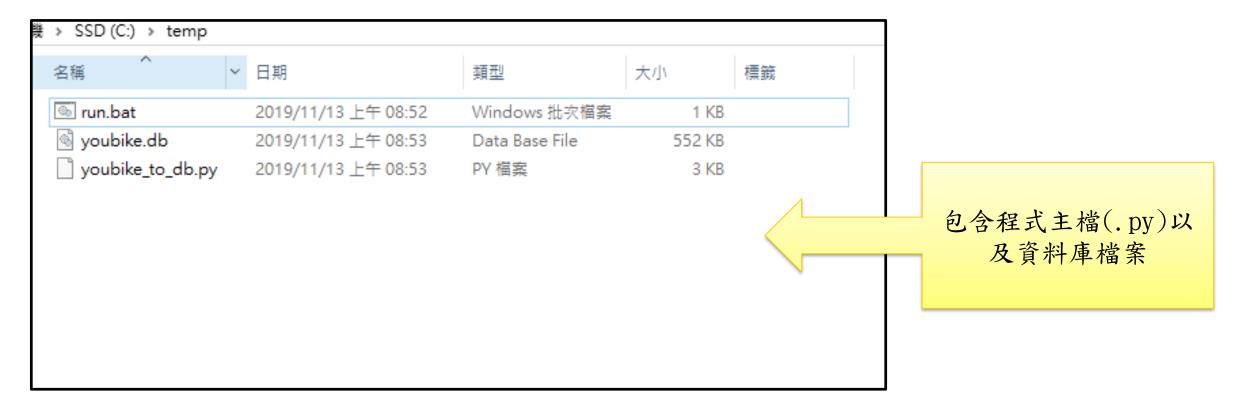
python youbike_to_db.py

pause

開啟文字編輯器撰寫 執行程式 需要切換到完整的路徑

■ 將檔案移動到c:\temp





• 執行測試

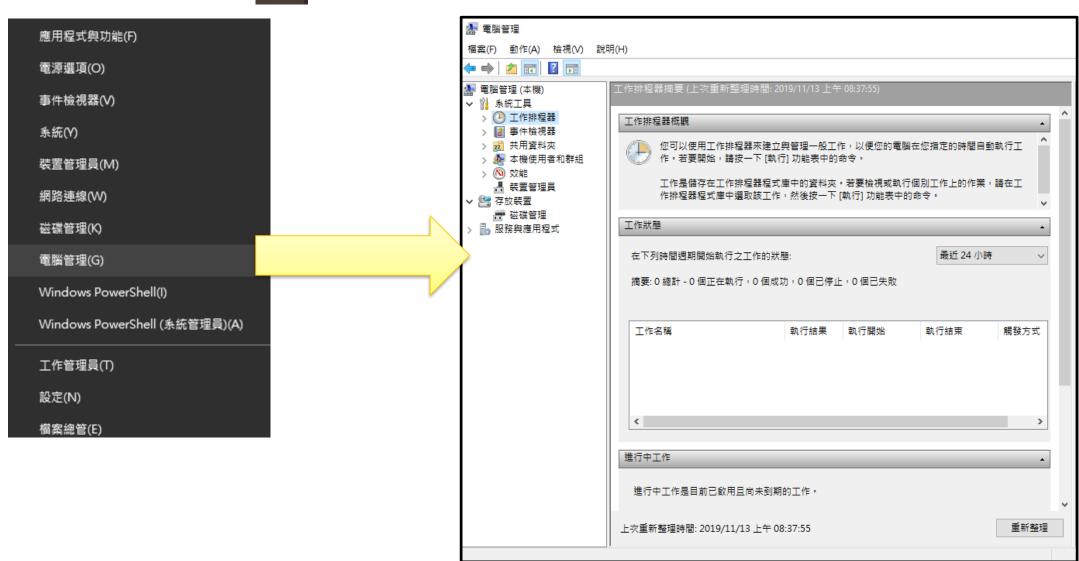
```
C:\WINDOWS\system32\cmd.exe
C:\temp>python C:\temp\youbike_to_db.py
2019-11-13 09:02:14
第1次
資料抓取中
寫入成功!
close
完成!
```



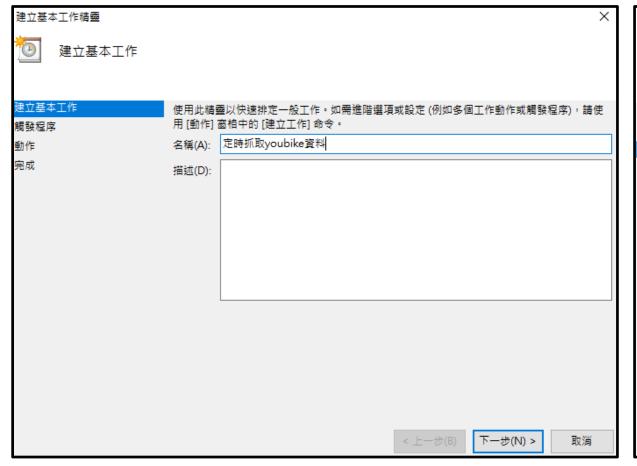
■ 呼叫windows排程工具

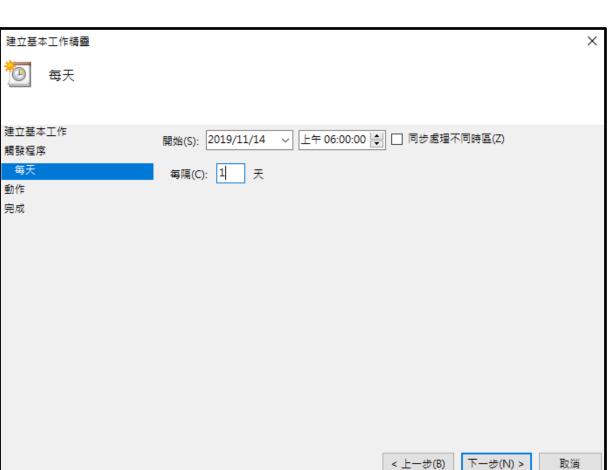


■ 滑鼠右鍵點選 ■ →電腦管理→工作排程器



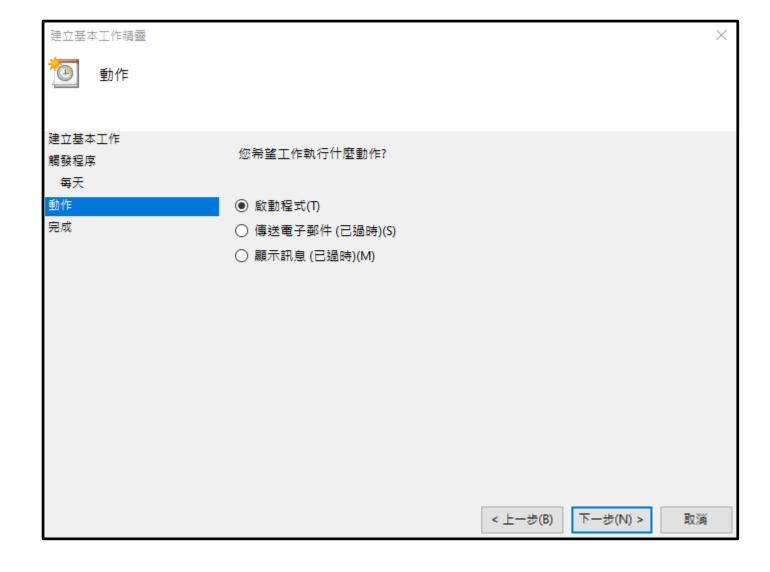
- 設定每天早上六點開始啟動
- 建立基本工作





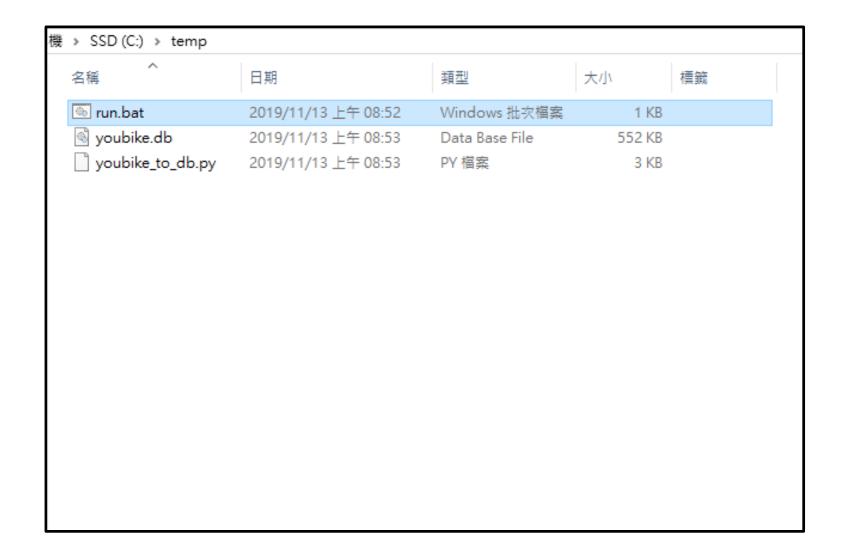


• 啟動程式





■ 選擇run. bat

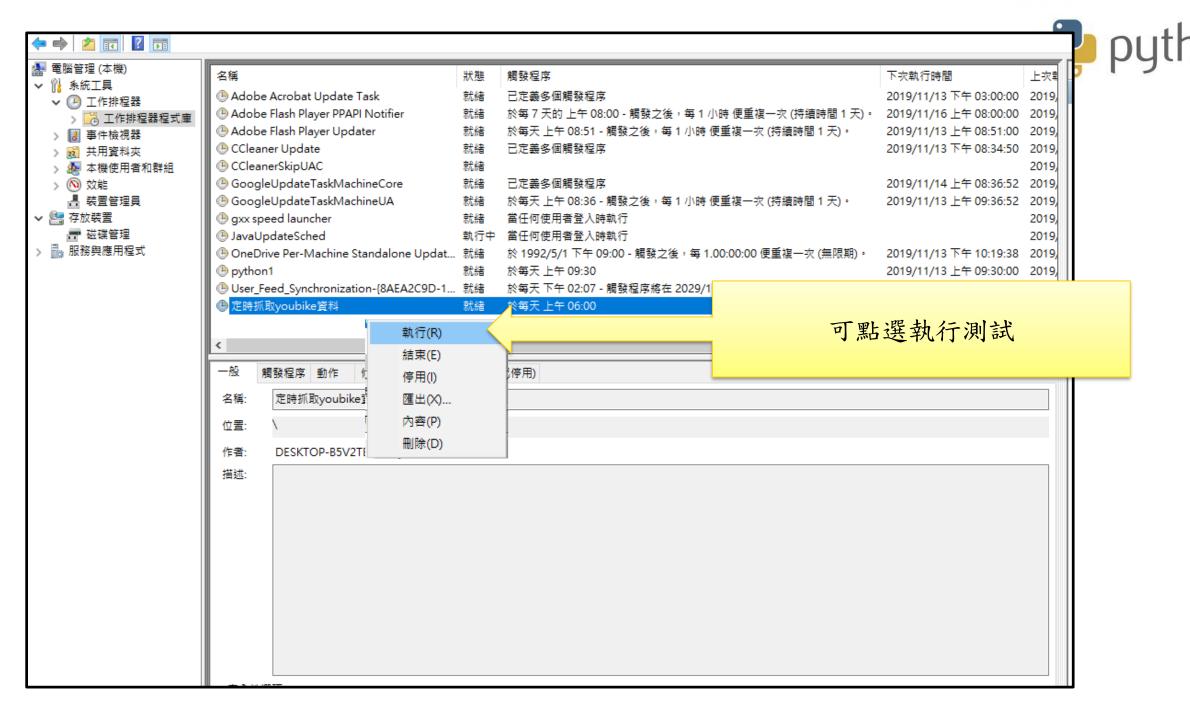




■ 完成設定(下一步)



建立基本工作精靈		建立基本工作精靈					×
🖲 啟動程式		適 摘要					
建立基本工作		自立基本工作					
觸發程序	程式或指令碼(P):	1 發程序	名稱:	定時抓取youbike資料			
每天	"C:\Users\Jerry\OneDrive - disintermediate interactive infrastructure 瀏覽(R)	每天	描述:				
動作		九作					
啟動程式	新增引數 (可省略)(A):	啟動程式					
完成	開始位置 (可省略)(T):	₽成 □					
			觸發程序:	每天; 於每天 上午 06:00			
			動作:	啟動程式; "C:\Users\Jerry\OneDri	ve - disintermediate	interactive i	nfrastructi
			□ 當我按	[完成] 時開啟這項工作的 [內容] 對話	方塊		
			· [完成] 時,新工作就會建立並新增3				
	< 上一步(B) 下一步(N) > 取消				< 上一步(B) 第	記成(F)	取消



■ 每天自動開啟儲存

```
C:\WINDOWS\system32\cmd.exe
 資料抓取中
20191112105441
寫入成功!
close
完成!
2019-11-12 11:06:22
第17次
第17次
20191112110441
夏人成功!
close
 寫入成功!
close
完成!
2019-11-12 11:16:22
第18次
第18次
20191112111441
寫入成功!
close
完成!
2019-11-12 11:26:23
第資料(取中
20191112112441
寫入成功!
  close
完成!
2019-11-12 11:36:24
 第20次
資料抓取中
20191112113341
寫入成功!
close
完成!
2019-11-12 11:46:25
 第21次
資料抓取中
20191112114341
寫入成功!
   close
完成!
2019-11-12 11:56:26
2019-11-12 11:56:26

第22次

資料抓取中

20191112115341

寫入成功:

close

完成!

2019-11-12 12:06:26

第23次

資料抓取中

20191112120341

寫入成功:

close

完成!

2019-11-12 12:16:27

第24次
 2019-11-12-12:1
第24次
資料抓取中
20191112121341
寫入成功!
close
完成!
```



■補充資料



定時刪除進程

https://ccnrz.wordpress.com/2018/01/17/windows-%E5%B7%A5%E4%BD%9C%E6%8E%92%E7%A8%8B%E5%B0%8F%E6%8A%80%E5%B7%A7/





1. 修改成絕對路徑

```
def writeData(datas):
    try:
        conn=sqlite3.connect(r'c:\temp\youbike.db')
        #print('open sucess!')
        curosr=conn.cursor()

    sqlstr='insert into data values("{}","{}","{}","{}","{}","{}","{}");'

    for data in datas:
        curosr.execute(sqlstr.format(data[0],data[1],data[2],data[3],data[
```

2. 使用os. getcwd()→取得當前目錄

```
try:
    conn=sqlite3.connect(os.getcwd()+'\youbike.db')
    #print('open sucess!')
    curosr=conn.cursor()

sqlstr='insert into data values("{}","{}","{}","{}","{}","{}","{}");'
```

module not found



