

Python課程成果- 運用Python自動 將數個溫室氣體檔案進行合併

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學習動機

- 公司每年需填寫環境部溫室氣體盤查登錄表單
- 公司每年需填報環境部溫室氣體盤查網站
- 表單須請多個單位協助填寫
- 彙整表單需耗費大量時間

待改善問題 及改善方式

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- 改善方式:
 - 運用Python自動化，將數個溫室氣體檔案進行合併

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Python 自動化

```
import os
from openpyxl import load_workbook

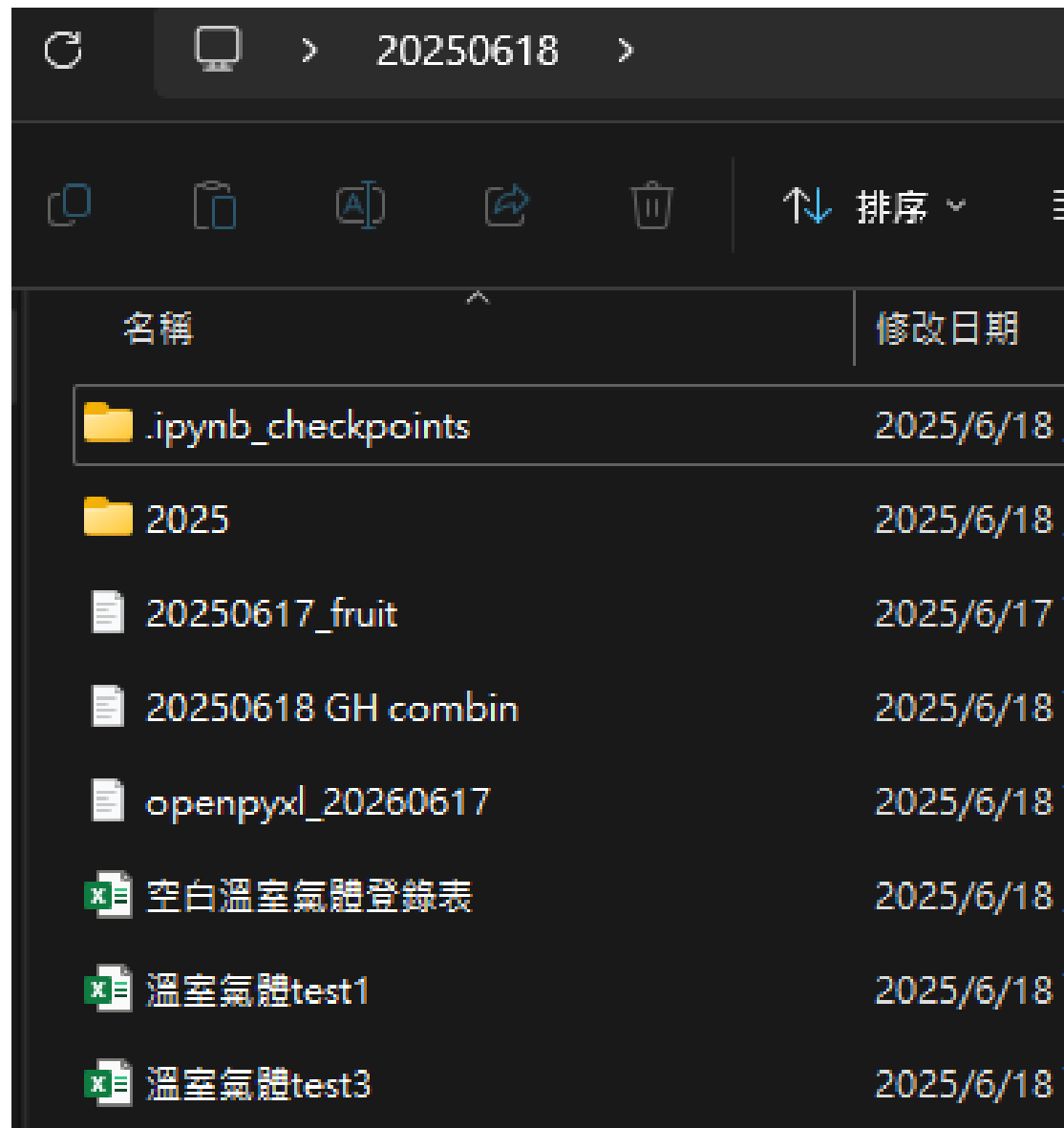
folder_path = './2025'
all_files = os.listdir(folder_path)
start_row=4

GH_wb=load_workbook('空白溫室氣體登錄表.xlsx')
GH_ws3=GH_wb['表三']
GH_ws4=GH_wb['表四']
GH_ws5=GH_wb['表五']
GH_ws6=GH_wb['表六']
GH_ws7=GH_wb['表七']

for file in all_files:
    name_group=file.split('.')
    if len(name_group)>1:
        if name_group[1]=='xlsx':
            data_wb=load_workbook(f'{folder_path}/{file}')
            data_ws=data_wb.active
            for index,name in enumerate(all_files):
                #表三
                GH_select_order3=['A','B','D','E','G','H','J','K','P','AK','AL','AM','AN','AO','AP','AQ','AR','AS','AT']
                Data_select_order3=['A','B','C','D','E','F','G','H','M','AH','AI','AJ','AK','AL','AM','AN','AO','AP','AQ']
                for i_3 in range(19):
                    for c in range(4,100):
                        GH_ws3[f'{GH_select_order3[i_3]}{c}']=data_ws[f'{Data_select_order3[i_3]}{c}'].value

                # 表四
                GH_select_order4=['M','N','O','P','Q','R','S','T','U','W','X']
                Data_select_order4=['AR','AS','AT','AU','AV','AW','AX','AY','AZ','BB','BC']
                for i_4 in range(11):
                    for c in range(4,100):
                        GH_ws4[f'{GH_select_order4[i_4]}{c}']=data_ws[f'{Data_select_order4[i_4]}{c}'].value
```

檔案成果



A screenshot of a Windows File Explorer window showing a directory listing for '20250618'. The window title is '20250618'. The address bar shows the path '20250618'. The toolbar includes icons for Refresh, Home, Back, Forward, Share, and Delete, along with a '排序' (Sort) dropdown menu. The main area displays a list of files and folders with columns for '名稱' (Name) and '修改日期' (Modified Date).

名稱	修改日期
.ipynb_checkpoints	2025/6/18
2025	2025/6/18
20250617_fruit	2025/6/17
20250618 GH combin	2025/6/18
openpyxl_20260617	2025/6/18
空白溫室氣體登錄表	2025/6/18
溫室氣體test1	2025/6/18
溫室氣體test3	2025/6/18