

高雄科技大學

智慧商務系

資料結構期末專題

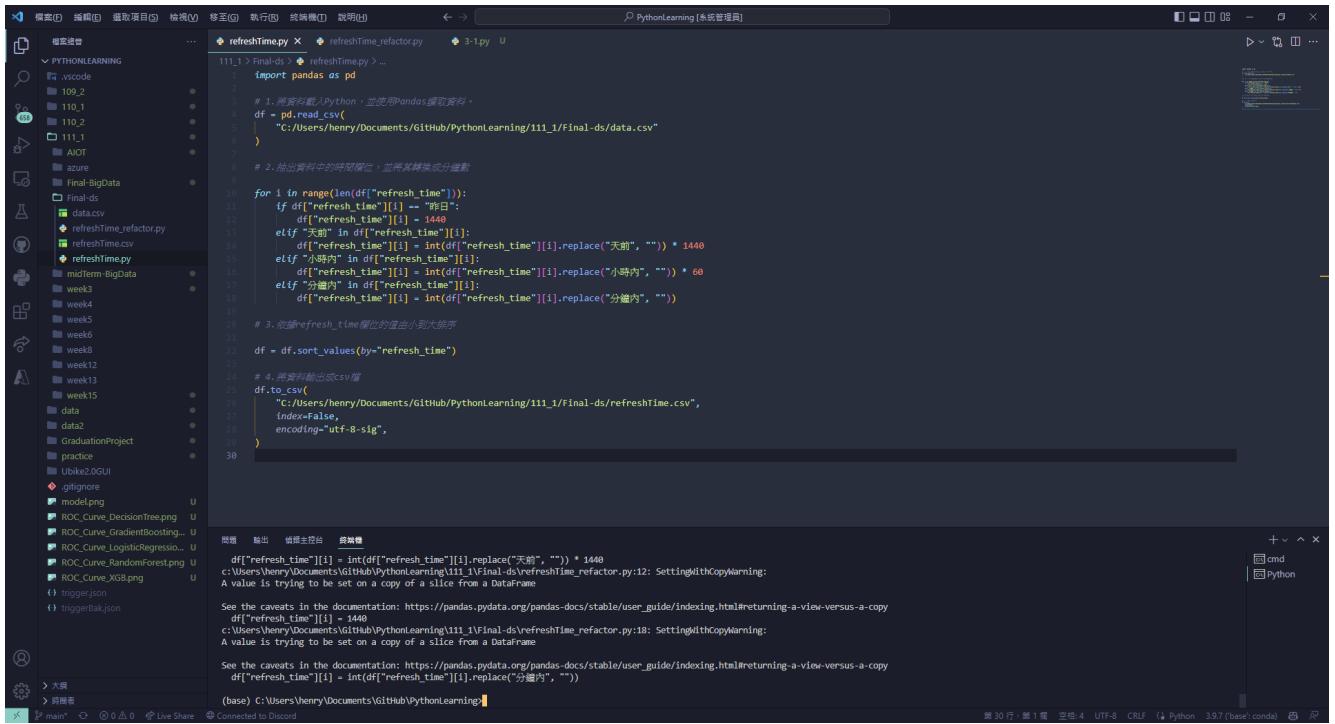
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指導教授：謝文川

2023/1

專題內容說明：

我是以大二的期末專題，高雄市租屋市場分析進行小修改，加入了快速排序，讓呈現出來的資料以更新時間為排序目標，由小到大呈現。



```
refreshTime_refactor.py
111_1 > Final-ds > refreshTime_refactor.py < 3-1.py U
1 import pandas as pd
2
3 # 1. 將資料載入Python，並使用Pandas讀取資料。
4 df = pd.read_csv(
5     "C:/Users/henry/Documents/GitHub/PythonLearning/111_1/Final-ds/data.csv"
6 )
7
8 # 2. 補出資料中的時間欄位，並將其轉換成分鐘數
9 for i in range(len(df["refresh_time"])):
10     if df["refresh_time"][i] == "昨日":
11         df["refresh_time"][i] = 1440
12     elif "天前" in df["refresh_time"][i]:
13         df["refresh_time"][i] = int(df["refresh_time"][i].replace("天前", "")) * 1440
14     elif "小時內" in df["refresh_time"][i]:
15         df["refresh_time"][i] = int(df["refresh_time"][i].replace("小時內", "")) * 60
16     elif "分鐘內" in df["refresh_time"][i]:
17         df["refresh_time"][i] = int(df["refresh_time"][i].replace("分鐘內", ""))
18
19 # 3. 依據refresh_time欄位的值由小到大排序
20 df = df.sort_values(by="refresh_time")
21
22 # 4. 將資料輸出成csv檔
23 df.to_csv(
24     "C:/Users/henry/Documents/GitHub/PythonLearning/111_1/Final-ds/refreshTime.csv",
25     index=False,
26     encoding="utf-8-sig",
27 )
28
29
30
# 1. 將資料載入Python，並使用Pandas讀取資料。
df["refresh_time"][i] = int(df["refresh_time"][i].replace("天前", "")) * 1440
c:/Users/henry/Documents/GitHub/PythonLearning/111_1/Final-ds/refreshTime_refactor.py:12: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
df["refresh_time"][i] = 1440
c:/Users/henry/Documents/GitHub/PythonLearning/111_1/Final-ds/refreshTime_refactor.py:18: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame
See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
df["refresh_time"][i] = int(df["refresh_time"][i].replace("分鐘內", ""))
(base) C:\Users\henry\Documents\GitHub\PythonLearning\]
```

修改前

修改後