

```
# -*- coding: utf-8 -*-
"""
Created on Thu Mar 13 15:11:12 2025

@author: User
"""

import requests
import pandas as pd
import datetime # noqa: F401

# 設定 API 參數
API_KEY = '' # 替換為您的 API Key
FROM_CURRENCY = 'CNY' # 人民幣
TO_CURRENCY = 'TWD' # 目標貨幣（可改為 'TWD'）
URL =
f"https://www.alphavantage.co/query?function=FX_DAILY&from_symbol={FROM_CURRENCY}
&to_symbol={TO_CURRENCY}&apikey={API_KEY}&outputsize=compact"

# 發送請求
response = requests.get(URL)
data = response.json()

# 提取匯率數據
exchange_rates = data.get("Time Series FX (Daily)", {})

# 轉換為 DataFrame
df = pd.DataFrame.from_dict(exchange_rates, orient='index')
df.index = pd.to_datetime(df.index) # 轉換索引為日期
df = df.sort_index(ascending=False) # 按日期排序
df = df[['4. close']].rename(columns={'4. close': 'Exchange Rate'}) # 只保留收盤
價（匯率）

# 取得最近 5 天數據
recent_5_days = df.head(5)
min_val=recent_5_days.values.min()
last_min_val=recent_5_days.iloc[0].values.min()
last_min_val=min_val
```

```
if (last_min_val==min_val):
    from linebot import LineBotApi
    from linebot.models import TextSendMessage
# 你的 LINE Messaging API 權杖
    LINE_CHANNEL_ACCESS_TOKEN = ""
# 設定 LineBot API
    line_bot_api = LineBotApi(LINE_CHANNEL_ACCESS_TOKEN)
# 發送訊息給特定使用者（需知道 User ID）
    user_id = ""
    today=pd.to_datetime("today").date()
    today_str=today.strftime("%Y-%m-%d")
    text = "目前人民幣匯率 5 天最低價"+today_str+" "+str(min_val)
    message = TextSendMessage(text)
# 發送訊息
    line_bot_api.push_message(user_id, message)
    print("訊息已發送！")
else:
    print("min values not in the last day")
#print(recent_5_days)
print(min_val, last_min_val)
```