Joshua Skipper

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In [27]: import requests
         #Create an account @ https://openweathermap.org/
         # Grab the API Key from your account
         API_KEY = 'd1a650f175b0d849b7cc772b25ff66a9'
         BASE_URL = "http://api.openweathermap.org/data/2.5/weather"
         city = input("Enter a city name: \n")
         request_url = f"{BASE_URL}?appid={API_KEY}&q={city}"
         response = requests.get(request_url)
         print(response.json())
         Enter a city name:
         Atlanta
         {'coord': {'lon': -84.388, 'lat': 33.749}, 'weather': [{'id': 500, 'main': 'Rain', 'icon': 'light rain', 'icon': 'stations', 'main': {'temp': 290.22, 'feels_like': 290.05, 'temp_min': 287.98, 'temp_m
         ax': 292.13, 'pressure': 1015, 'humidity': 79}, 'visibility': 10000, 'wind': {'speed': 4.63, 'deg': 100}, 'rain': {'1h': 0.92}, 'clouds': {'all': 100}, 'dt': 1681402029, 'sys': {'type': 2, 'id': 2006620, 'country': 'US', 's
         unrise': 1681384168, 'sunset': 1681430779}, 'timezone': -14400, 'id': 4180439, 'name': 'Atlanta', 'cod': 200}
In [28]: # Clean / Convert your data into readable text
         if response.status_code == 200:
             data = response.json()
             weather = data['weather'][0]['description']
             celcius = round(data['main']['temp'] - 273.15)
             fahrenheit = round((celcius * 9/5) + 32)
             print(f"This is weather report for {city}.")
             print(f"Weather: {weather}")
             print(f"Temperature: {fahrenheit} in fahrenheit")
             print(f"Temperature: {celcius} in celcius")
         else:
             print("An error occurred.")
         This is weather report for Atlanta.
         Weather: light rain
         Temperature: 63 in fahrenheit
         Temperature: 17 in celcius
In [20]: import pandas as pd
         #Putting the data into a dataframe
         df = pd.json_normalize(data['main'])
         #Add new column for a current timestamp
         df['timestamp'] = pd.to_datetime('now')
         C:\Users\skipper001\AppData\Local\Temp\ipykernel_18760\3662476903.py:7: FutureWarning: The parsing of 'now' in pd.to_datetime without `utc=True` is deprecated. In a future version, this will match Timestamp('now') and Times
         tamp.now()
          df['timestamp'] = pd.to_datetime('now')
Out[20]:
             temp feels_like temp_min temp_max pressure humidity
                                                                         timestamp
                                                         79 2023-04-13 16:10:26.577248
         0 290.22
                    290.05
                             287.98
                                      292.13
                                               1015
In [29]: city = input("Enter a city name: \n")
         request_url = f"{BASE_URL}?appid={API_KEY}&q={city}"
         response = requests.get(request_url)
         print(response.json())
         Enter a city name:
         {'coord': {'lon': -74.006, 'lat': 40.7143}, 'weather': [{'id': 800, 'main': 'Clear', 'description': 'clear sky', 'icon': '01d'}], 'base': 'stations', 'main': {'temp': 301.68, 'feels_like': 300.5, 'temp_min': 298.79, 'temp_m
         ax': 304.16, 'pressure': 1013, 'humidity': 27}, 'visibility': 10000, 'wind': {'speed': 6.17, 'deg': 290, 'gust': 8.75}, 'clouds': {'all': 0}, 'dt': 1681401959, 'sys': {'type': 2, 'id': 2008101, 'country': 'US', 'sunrise': 1
         681381231, 'sunset': 1681428734}, 'timezone': -14400, 'id': 5128581, 'name': 'New York', 'cod': 200}
In [30]: if response.status_code == 200:
              data = response.json()
              weather = data['weather'][0]['description']
             celcius = round(data['main']['temp'] - 273.15)
             fahrenheit = round((celcius * 9/5) + 32)
             print(f"This is weather report for {city}.")
             print(f"Weather: {weather}")
             print(f"Temperature: {fahrenheit} in fahrenheit")
             print(f"Temperature: {celcius} in celcius")
              print("An error occurred.")
         This is weather report for New York.
         Weather: clear sky
         Temperature: 84 in fahrenheit
         Temperature: 29 in celcius
```