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import requests
import json

# Step 1: Retrieve weather data from API
api_key = 'YOUR_API_KEY'  # Replace with your OpenWeatherMap API key
location = 'New York'  # Replace with the desired location

# Make API request to retrieve current weather data
url = f'http://api.openweathermap.org/data/2.5/weather?q={location}&appid={api_key}&units=metric'
response = requests.get(url)
weather_data = json.loads(response.text)

# Step 2: Extract relevant information from the weather data
current_temp = weather_data['main']['temp']
humidity = weather_data['main']['humidity']
weather_desc = weather_data['weather'][0]['description']

# Print current weather information
print(f'Location: {location}')
print(f'Temperature: {current_temp}°C')
print(f'Humidity: {humidity}%')
print(f'Weather Description: {weather_desc}')

# Step 3: Forecast temperature for the next few days (assuming 5-day forecast)
forecast_url = f'http://api.openweathermap.org/data/2.5/forecast?q={location}&appid={api_key}&units=metric'
forecast_response = requests.get(forecast_url)
forecast_data = json.loads(forecast_response.text)

forecast_temps = []
for forecast in forecast_data['list']:
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    forecast_temp = forecast['main']['temp']
    forecast_temps.append(forecast_temp)

# Step 4: Print the temperature forecast for the next few days
print('\nTemperature Forecast:')
for i, temp in enumerate(forecast_temps, 1):
    print(f'Day {i}: {temp}°C')
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