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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_rainfall = weather_data['rain']['1h'] if 'rain' in weather_data else 0


# Print current weather information

print(f'Location: {location}')
print(f'Current Rainfall: {current_rainfall} mm')


# Step 3: Forecast rainfall for the next few hours or days

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_rainfall = []

for forecast in forecast_data['list']:
    forecast_time = forecast['dt_txt']
    forecast_rain = forecast['rain']['3h'] if 'rain' in forecast else 0
    forecast_rainfall.append((forecast_time, forecast_rain))

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Step 4: Print the rainfall forecast for the next few hours or days

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print('\nRainfall Forecast:')
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for forecast_time, rain in forecast_rainfall:
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    print(f'{forecast_time}: {rain} mm')
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