BUILD A WEATHER CHECKING APPLICATION USING PYTHON

- First, import the necessary dependencies, including the 'requests' library, which is required to fetch data.
- You can use it to retrieve data in a more structured format or directly from the API page.
- Import the 'requests' library.
- Prompt the user for the city input.
- Create a URL for the OpenWeatherMap API. Send an HTTP request to fetch data from the OpenWeatherMap API in your Python script.

(For example:

https://api.openweathermap.org/data/2.5/weather?q={}&appid=c8c1b2dd7998a81d7c2c627ff24a0bed&units=matric*)

- Parse the received data, which is in JSON format and resembles a Python dictionary.
- Extract individual elements from this data.

SOURCE CODE:

```
import requests
from pprint import pprint
city = input('Enter your city: ')

url =
   'https://api.openweathermap.org/data/2.5/weather?q={}&appid=c8c1b2dd7998a81
d7c2c627ff24a0bed&units=matric'.format(city)
res = requests.get(url)

data = res.json()
print(res)
print(data)
print(data)

temp = data['main']['temp']
wind_speed = data['wind']['speed']
latitude = data['coord']['lat']
longitude = data['coord']['lon']
description = data['weather'][0]['description']
print('Temperature: {} degree celcius'.format(temp))
```

```
print('Wind Speed : {} m/s'.format(wind_speed))
print('Latitude:{}'.format(latitude))
print('Longitude:{}'.format(longitude))
print('Description:{}'.format(description))
```

Output:

