

## Develop a Python script

Date	12 September 2022
Team ID	PNT2022TMIDI08723
Project Name	Project - Signs with smart connectivity for Better road safety
Maximum Marks	4 Marks

### Signs with smart connectivity for Better road safety

Create a code snippet using python to

1. Extract weather data from OpenWeatherMap using APIs
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it in the python compiler

The screenshot shows the OpenWeatherMap website with the API documentation for the 'current' endpoint. The browser tabs include WhatsApp, IBM, IBM-Project, Develop a, (113) Node, IBM App D, Node-RED, ci-pipeline, and Current we. The address bar shows 'openweathermap.org/current'. The page features a navigation bar with links like Weather in your city, Guide, API, Dashboard, Marketplace, Pricing, Maps, Our Initiatives, Partners, Blog, For Business, vignette, and Support. The main content area is titled 'API call' and displays the URL: `https://api.openweathermap.org/data/2.5/weather?lat={lat}&lon={lon}&appid={API key}`. Below this, the 'Parameters' section lists: 

- lat, lon**: required. Geographical coordinates (latitude, longitude). If you need the geocoder to automatic convert city names and zip-codes to geo coordinates and the other way around, please use our [Geocoding API](#).
- appid**: required. Your unique API key (you can always find it on your account page under the "API key" tab).
- mode**: optional. Response format. Possible values are `xml` and `html`. If you don't use the `mode` parameter format is JSON by default. [Learn more](#)
- units**: optional. Units of measurement. `standard`, `metric` and `imperial` units are available. If you do not use the `units` parameter,

 A sidebar on the right lists additional features: 

- Call current weather data
- How to make an API call
- Bulk downloading
- Weather fields in API response
- JSON
- XML
- List of condition codes
- Min/max temperature in current weather
- API and forecast API
- Other features
- Geocoding API
- Built-in geocoding
- Built-in API request by city name
- Built-in API request by city ID
- Built-in API request by ZIP code
- Format
- Units of measurement
- Multilingual support
- Call back function for JavaScript code

 At the bottom, a cookie notice states: 'We use cookies which are essential for the site to work. We also use non-essential cookies to help us improve our services. Any data collected is anonymised. You can allow all cookies or manage them individually.' There are buttons for 'Allow all cookies' and 'Manage cookies'. An 'Activate Windows' watermark is visible in the bottom right corner.

