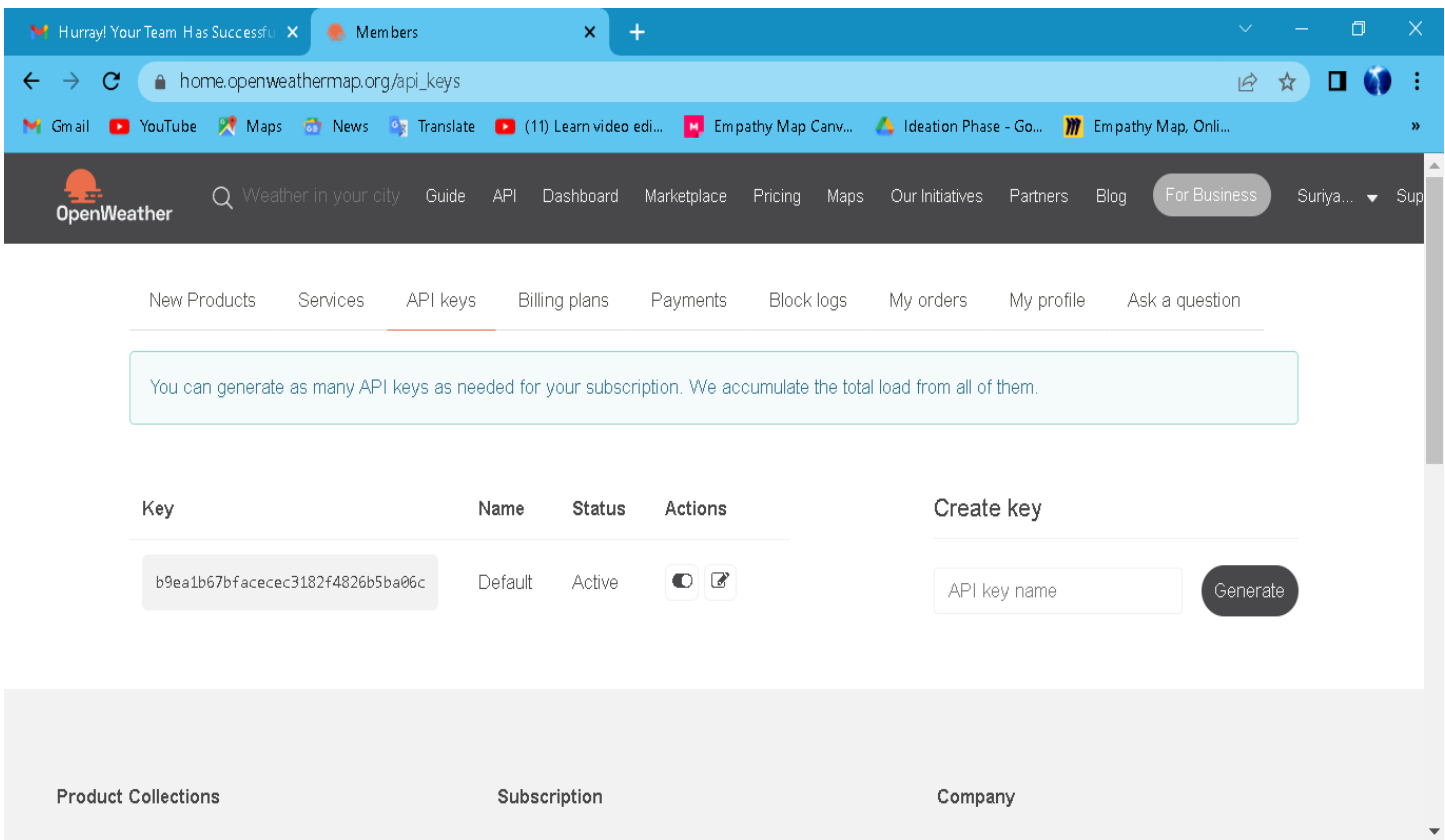


## DEVELOP A PYTHON SCRIPT

Team ID	PNT2022TMID39232
Date	Sep 24,2022
Project name	Signs with smart connectivity for better road safety


1. Exact weather data from Open Weather Map using APIs
2. Send the extracted data to the cloud
3. Receive data from the cloud and view it in the python compile

Account creation in Open weather(Members) & API key generation





The screenshot shows the OpenWeatherMap website's 'API keys' management page. The browser's address bar displays 'home.openweathermap.org/api\_keys'. The page features a navigation bar with links to 'Weather in your city', 'Guide', 'API', 'Dashboard', 'Marketplace', 'Pricing', 'Maps', 'Our Initiatives', 'Partners', 'Blog', and a 'For Business' button. Below the navigation bar, there are tabs for 'New Products', 'Services', 'API keys' (which is selected), 'Billing plans', 'Payments', 'Block logs', 'My orders', 'My profile', and 'Ask a question'. A light blue informational box states: 'You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.' The main content area contains a table with columns: 'Key', 'Name', 'Status', and 'Actions'. One key is listed with the value 'b9ea1b67bfacecec3182f4826b5ba06c', named 'Default', and in an 'Active' state. To the right of the table is a 'Create key' section with a text input field labeled 'API key name' and a 'Generate' button. At the bottom of the page, there are sections for 'Product Collections', 'Subscription', and 'Company'.

## Searching weather details and getting at exact location

Weather in your cityGuideAPIDashboardMarketplacePricingMapsOur InitiativesPartnersBlogFor BusinessSuriya...Sup

chennai Search

**Chennai, IN**  *mist*  
**26°C** temperature from 26 to 26 °C, wind 1.03 m/s, clouds 75 %, 1013 hpa  
Geo coords [13.0878, 80.2785]

Search engine is very flexible. How it works:

- To make it more precise put the city's name, comma, 2-letter country code (ISO3166). You will get all proper cities in chosen country. The order is important - the first is city name then comma then country. Example - London, GB or New York, US.

## PYTHON code

\*weather.py - C:\Users\SURIYAKUMAR\AppData\Local\Programs\Python\Python39\weather.py (3.9.1)  
File Edit Format Run Options Window Help

```
import requests
import json
weatherData=requests.get('https://api.openweathermap.org/data/2.5/weather?q=Chennai,%20IN&appid=b9ealb6
a=weatherData.text
print(type(a))
data=json.loads(a)
print(type(data))
print(data)
print(data["coord"])
print("Pressure",data["main"]["pressure"])
print("Temperature",data["main"]["temp"])
print("Humidity",data["main"]["humidity"])
print("Wind Speed",data["wind"]["speed"])
```

IDLE Shell 3.9.1  
File Edit Shell Debug Options Window Help  
===== RESTART: C:\Users\SURIYAKUMAR\AppData\Local\Programs\Python\Python39\weather.py =====  
<class 'str'>  
<class 'dict'>  
{'coord': {'lon': 80.2785, 'lat': 13.0878}, 'weather': [{'id': 701, 'main': 'Mist', 'description': 'mi  
st', 'icon': '50n'}], 'base': 'stations', 'main': {'temp': 299.14, 'feels\_like': 299.14, 'temp\_min': 2  
99.14, 'temp\_max': 299.14, 'pressure': 1013, 'humidity': 94}, 'visibility': 2100, 'wind': {'speed': 1.  
03, 'deg': 0}, 'clouds': {'all': 75}, 'dt': 1667846212, 'sys': {'type': 1, 'id': 9218, 'country': 'IN'  
, 'sunrise': 1667867691, 'sunset': 1667909424}, 'timezone': 19800, 'id': 1264527, 'name': 'Chennai', '  
cod': 200}  
{'lon': 80.2785, 'lat': 13.0878}  
Pressure 1013  
Temperature 299.14  
Humidity 94  
Wind Speed 1.03  
Ln: 76 Col: 4  
Ln: 5 Col: 14