**DEVELOP A PYTHON SCRIPT**

|  |  |
| --- | --- |
| Date | 16TH November 2022 |
| Team ID | PNT2022TMID40718 |
| Project Name | Project: IOT- **Signs with Smart Connectivity for Better Road Safety** |
| Maximum Marks | 4 Marks |

# Enter your API key here

api\_key = "Your\_API\_Key"

# base\_url variable to store url

base\_url = "http://api.openweathermap.org/data/2.5/weather?"

# Give city name

city\_name = input("Enter city name : ")

# complete\_url variable to store

# complete url address

complete\_url = base\_url + "appid=" + api\_key + "&q=" + city\_name

# get method of requests module

# return response object

response = requests.get(complete\_url)

# json method of response object

# convert json format data into

# python format data

x = response.json()

# Now x contains list of nested dictionaries

# Check the value of "cod" key is equal to

# "404", means city is found otherwise,

# city is not found

if x["cod"] != "404":

# store the value of "main"

# key in variable y

y = x["main"]

# store the value corresponding

# to the "temp" key of y

current\_temperature = y["temp"]

# store the value corresponding

# to the "pressure" key of y

current\_pressure = y["pressure"]

# store the value corresponding

# to the "humidity" key of y

current\_humidity = y["humidity"]

# store the value of "weather"

# key in variable z

z = x["weather"]

# store the value corresponding

# to the "description" key at

# the 0th index of z

weather\_description = z[0]["description"]

# print following values

print(" Temperature (in kelvin unit) = " +

str(current\_temperature) +

"\n atmospheric pressure (in hPa unit) = " +

str(current\_pressure) +

"\n humidity (in percentage) = " +

str(current\_humidity) +

"\n description = " +

str(weather\_description))

else:

print(" City Not Found ")

**OUTPUT:**

Enter city name : chennai

Temperature (in kelvin unit) = 312.15

atmospheric pressure (in hPa unit) = 996

humidity (in percentage) = 40

description = haze