DEVELOP A PYTHON SCRIPT

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| Date | 15TH November 2022 |
| Team ID | PNT2022TMID44776 |
| 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?](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