DEVELOP A PYTHON SCRIPT

Date	11 November 2022
Team ID	PNT2022TMID25985
Project Name	Project- Real time River water quality monitoring and control system
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 : Delhi  Temperature (in
kelvin unit) = 312.15  atmospheric
pressure (in hPa unit) = 996  humidity (in
percentage) = 40  description = haze
```