DEVELOP A PYTHON SCRIPT

Date	06 November 2022
Team ID	PNT2022TMID23164
Project Name	Project- Signs with Smart Connectivity for Better Road Safety
Maximum Marks	4 Marks

Program:

```
# 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()
```

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```
# 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"]
```

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```
    # 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

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