DEVELOP A PYTHON SCRIPT

Date	06 November 2022
Team ID	PNT2022TMID54446
Project Name	Signs with Smart Connectivity for Bette r 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()
```

```
# 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