DEVELOP A PYTHON SCRIPT

Date	16 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,
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# 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) = " +
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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