DEVELOP A PYTHON SCRIPT

Date	03 November
Team ID	PNT2022TMID52636
Project Name	Signs with Smart Connectivity for
	Better Road Safety
Maximum Marks	4 Marks

```
import requests
import paho.mqtt.client as mqtt
import time
import random
import json
"https://api.openweathermap.org/data/2.5/weather?q=Chennai,IN&appid=edc64d6a64cdea76
f74ae48da4cea3e6"
r = requests.get(url = a)
data = r.json()
x = data["weather"][0]["main"]
y = data["visibility"]
rawdata = \{
  "Weather": x,
  "Visibility": y
  }
jsondata = json.dumps(rawdata)
print("Weather is: ", x)
print("Visibility is: ", y)
```

```
ORG = "4i2rfo"
DEVICE_TYPE = "Weather_Analyser"
TOKEN = "12345678"
DEVICE_ID = "OpenWeather"
server = ORG + ".messaging.internetofthings.ibmcloud.com";
pubTopic1 = "iot-2/evt/Weather/fmt/json";
authMethod = "use-token-auth";
token = TOKEN;
clientId = "d:" + ORG + ":" + DEVICE_TYPE + ":" + DEVICE_ID;
mqttc = mqtt.Client(client_id=clientId)
mqttc.username_pw_set(authMethod, token)
mqttc.connect(server, 1883, 60)
while True:
  try:
    mqttc.publish(pubTopic1, jsondata)
    print ("Published")
  except RuntimeError as error:
    # Errors happen fairly often, DHT's are hard to read, just keep going
    print(error.args[0])
    time.sleep(2.0)
    continue
  except Exception as error:
    dhtDevice.exit()
    raise error
```

time.sleep(3600.0)

mqttc.loop_forever()

