DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM

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Team ID	PNT2022TMID53586	
Project Name	Gas leakage monitoring and alerting system	

PYTHON CODE:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgld": "ohe16k",
    "typeId": "NODEMCU",
    "deviceId": "PQSJ1824"
  "auth": {
     "token": "always1824"
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
  m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
  temp=random.randint(32,40)
  hum=random.randint(60,80)
  gas=random.randint(500,800)
  pres=random.randint(20,80)
  myData={'temperature':temp, 'humidity':hum, 'gasLevel':gas, 'pressure':pres, 'latitude':13.148760, 'longitude':80.229100}
  client.publishEvent(eventId="status", msgFormat="json", data=myData, gos=0, onPublish=None)
  print("Published data Successfully: %s", myData)
  client.commandCallback = myCommandCallback
  time.sleep(2)
client.disconnect()
```

PUBLISH THE DATA TO IBM CLOUD:

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"temperature":34,"humidity":68,"gasLevel":558	json	10 minutes ago
status	{"temperature":37,"humidity":63,"gasLevel":665	json	10 minutes ago
status	{"temperature":32,"humidity":74,"gasLevel":700	json	10 minutes ago
status	{"temperature":34,"humidity":75,"gasLevel":718	json	10 minutes ago
status	{"temperature":32,"humidity":71,"gasLevel":741	json	10 minutes ago