

PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

Date	22 NOVEMBER 2022
Team ID	PNT2022TMID16758
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

PYTHON CODE

```
#IBM Watson IOT Platform
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "yf0dyy ",
        "typeId": "Faraaz ",
        "deviceId": "12345"
    },
    "auth": {
        "token": "VJTDPRX@f&4Vuox8ms "
    }
}

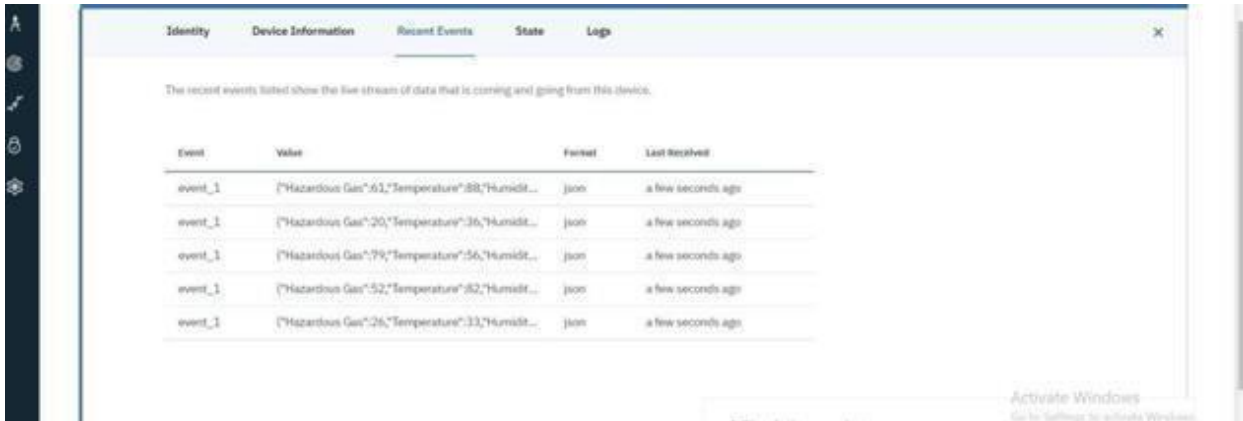
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" %
          cmd.data['command'])
    m=cmd.data['command']
    client = wiotp.sdk.device.DeviceClient(config=myConfig,
    logHandlers=None)
    client.connect()
```

```

while True:
    gas=random.randint(0,100)

    temp=random.randint(0,100) hum=random.randint(0,100)
    pre=random.randint(0,100)
    myData={ 'Hazardous Gas':gas, 'Temperature':temp, 'Humidity':hum,'Pressure':pre }
    client.publishEvent(eventId="status", msgFormat="json",data=myData,qos=0,
    onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback
    =
    myCommandCallbacktime.sleep(2)
client.disconnect() OUTPUT:

```



Event	Value	Format	Last Received
event_1	("Hazardous Gas":61,"Temperature":88,"Humidit...	json	a few seconds ago
event_1	("Hazardous Gas":20,"Temperature":36,"Humidit...	json	a few seconds ago
event_1	("Hazardous Gas":79,"Temperature":56,"Humidit...	json	a few seconds ago
event_1	("Hazardous Gas":52,"Temperature":82,"Humidit...	json	a few seconds ago
event_1	("Hazardous Gas":26,"Temperature":33,"Humidit...	json	a few seconds ago



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

Event	Value	Format	Last Received
event_1	["Hazardous Gas":57,"Temperature":98,"Humidity":...	json	a few seconds
event_1	["Hazardous Gas":3,"Temperature":35,"Humidity":...	json	a few seconds
event_1	["Hazardous Gas":49,"Temperature":74,"Humidity":...	json	a few seconds
event_1	["Hazardous Gas":85,"Temperature":51,"Humidity":...	json	a few seconds
event_1	["Hazardous Gas":92,"Temperature":35,"Humidity":...	json	a few seconds

Items per page 50 | 1-1 of 1 item

Events 1

New event type

Event type name: event_1

Send

Schedule

20 Every Minute

Payload

Specify the event payload in the editor window or by uploading a CSV file.

```
[{"Hazardous Gas": random(0, 100), "Temperature": random(0, 100), "Humidity": random(0, 100), "Pressure": random(0, 100)}]
```

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