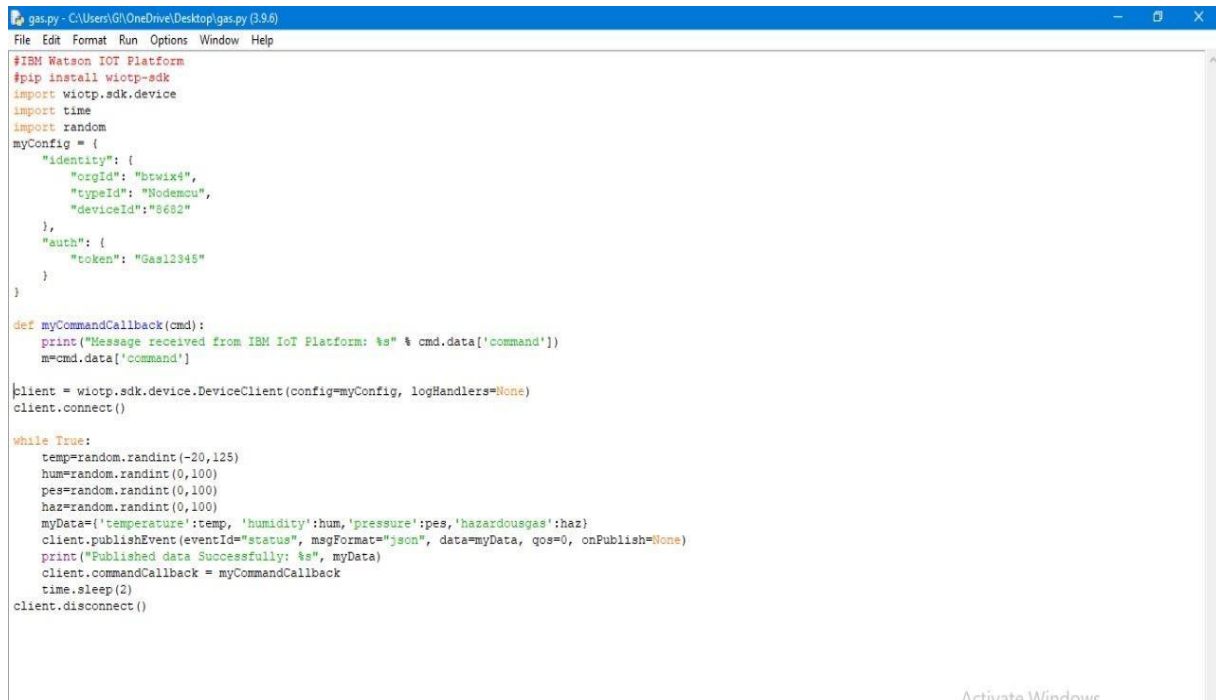


DEVELOPE THE PYTHON SCRIPT

Date	11 November 2022
Team ID	PNT2022TMID04358
Project Name	Project - Gas Leakage Monitoring and Alerting System for Industries.



```
#IBM Watson IoT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "btwix4",
        "typeId": "Nodemcu",
        "deviceId": "8682"
    },
    "auth": {
        "token": "Gas12345"
    }
}

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(-20,125)
    hum=random.randint(0,100)
    pes=random.randint(0,100)
    haz=random.randint(0,100)
    myData={'temperature':temp, 'humidity':hum, 'pressure':pes, 'hazardousgas':haz}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()
```

Activate Windows

```
"IDLE Shell 3.9.6"
File Edit Shell Debug Options Window Help
Python 3.9.6 (tags/v3.9.6:db3ff76, Jun 28 2021, 15:26:21) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\G!\OneDrive\Desktop\gas.py =====
2022-11-18 19:29:42,894 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:btwix4:NodeMCU:8682
Published data Successfully: %s ('temperature': 61, 'humidity': 15, 'pressure': 81, 'hazardousgas': 76)
Published data Successfully: %s ('temperature': 2, 'humidity': 22, 'pressure': 27, 'hazardousgas': 45)
Published data Successfully: %s ('temperature': 97, 'humidity': 68, 'pressure': 50, 'hazardousgas': 45)
Published data Successfully: %s ('temperature': 89, 'humidity': 85, 'pressure': 49, 'hazardousgas': 59)
Published data Successfully: %s ('temperature': 87, 'humidity': 92, 'pressure': 86, 'hazardousgas': 57)
Published data Successfully: %s ('temperature': 22, 'humidity': 66, 'pressure': 53, 'hazardousgas': 9)
Published data Successfully: %s ('temperature': 104, 'humidity': 88, 'pressure': 60, 'hazardousgas': 19)
|
```

Activate Windows