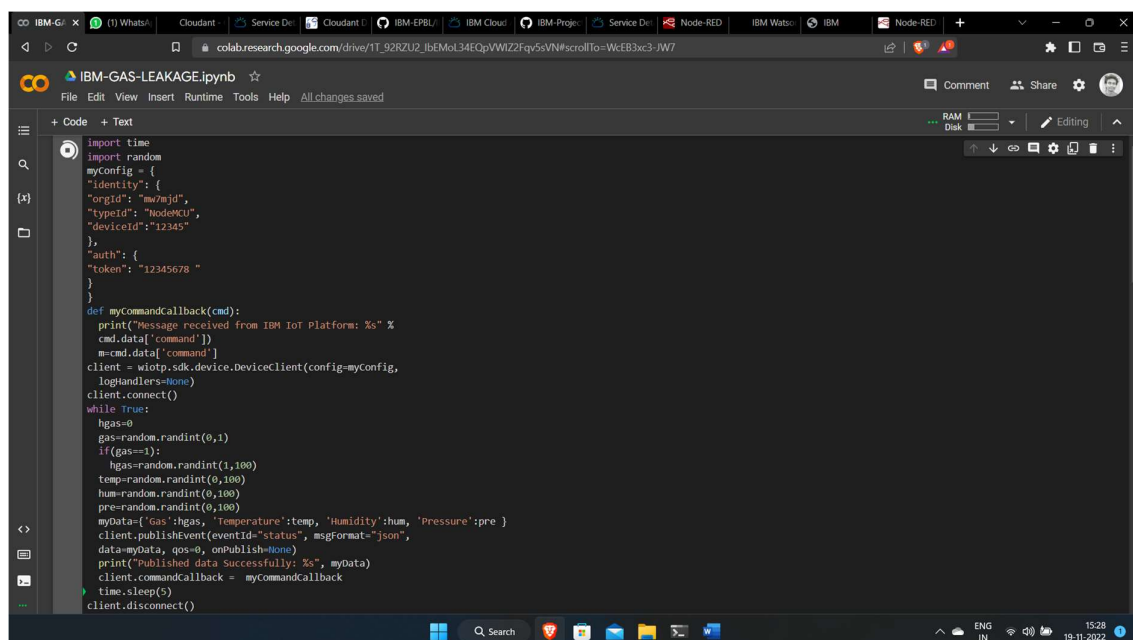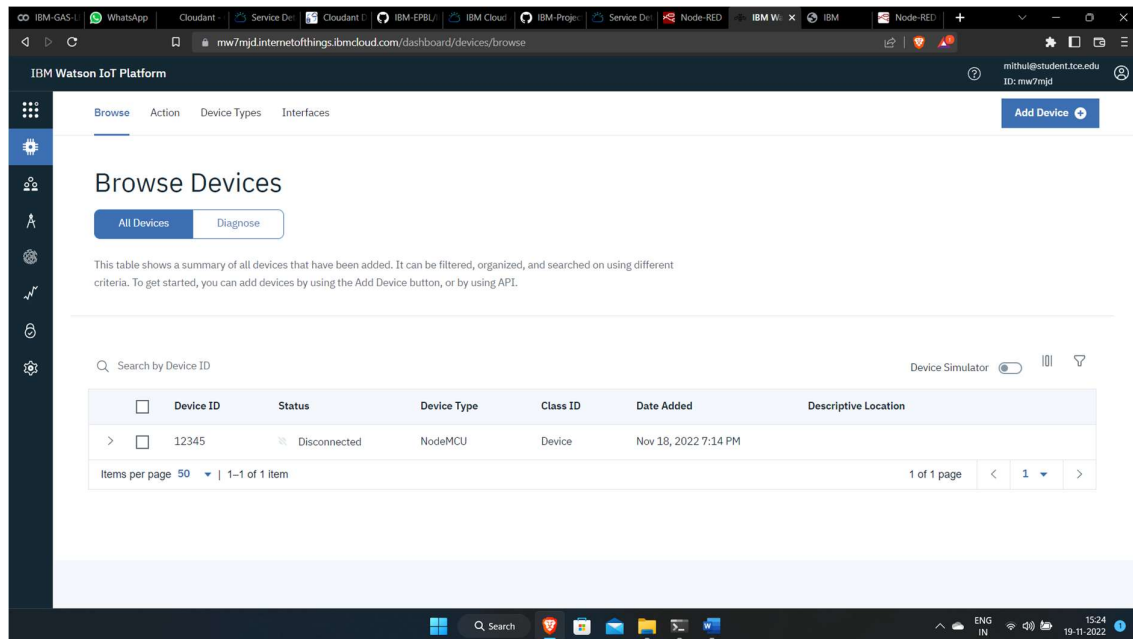# DEVELOP A PYTHON SCRIPT

PUBLISH DATA TO IBM CLOUD

TEAM ID	PNT2022TMID21520
PROJECT NAME	Gas Leakage monitoring & Alerting system for Industries

IBM-GAS-LEAKAGE.ipynb
File Edit View Insert Runtime Tools Help

+ Code + Text

```python
client.connect()
while True:
    hgas=0
    gas=random.randint(0,1)
    if(gas==1):
        hgas=random.randint(1,100)
    temp=random.randint(0,100)
    hum=random.randint(0,100)
    pre=random.randint(0,100)
    myData={'Gas':hgas, '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 = myCommandCallback
    time.sleep(5)
client.disconnect()
```

```
2022-11-19 09:59:21,600  wiotp.sdk.device.client.DeviceClient  ERROR  Unexpected disconnect from IBM Watson IoT Platform: 7
ERROR:wiotp.sdk.device.client.DeviceClient:Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 09:59:24,001  wiotp.sdk.device.client.DeviceClient  INFO  Connected successfully: d:mw7mjd:NodeMCU:12345
INFO:wiotp.sdk.device.client.DeviceClient:Connected successfully: d:mw7mjd:NodeMCU:12345
2022-11-19 09:59:24,004  wiotp.sdk.device.client.DeviceClient  ERROR  Unexpected disconnect from IBM Watson IoT Platform: 7
ERROR:wiotp.sdk.device.client.DeviceClient:Unexpected disconnect from IBM Watson IoT Platform: 7
Published data Successfully: %s {'Gas': 0, 'Temperature': 82, 'Humidity': 96, 'Pressure': 77}
Published data Successfully: %s {'Gas': 75, 'Temperature': 20, 'Humidity': 48, 'Pressure': 2}
Published data Successfully: %s {'Gas': 9, 'Temperature': 44, 'Humidity': 100, 'Pressure': 26}
2022-11-19 09:59:34,519  wiotp.sdk.device.client.DeviceClient  ERROR  Unexpected disconnect from IBM Watson IoT Platform: 7
ERROR:wiotp.sdk.device.client.DeviceClient:Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 09:59:34,524  wiotp.sdk.device.client.DeviceClient  INFO  Connected successfully: d:mw7mjd:NodeMCU:12345
INFO:wiotp.sdk.device.client.DeviceClient:Connected successfully: d:mw7mjd:NodeMCU:12345
2022-11-19 09:59:35,921  wiotp.sdk.device.client.DeviceClient  ERROR  Unexpected disconnect from IBM Watson IoT Platform: 7
ERROR:wiotp.sdk.device.client.DeviceClient:Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 09:59:35,924  wiotp.sdk.device.client.DeviceClient  INFO  Connected successfully: d:mw7mjd:NodeMCU:12345
INFO:wiotp.sdk.device.client.DeviceClient:Connected successfully: d:mw7mjd:NodeMCU:12345
2022-11-19 09:59:46,448  wiotp.sdk.device.client.DeviceClient  ERROR  Unexpected disconnect from IBM Watson IoT Platform: 7
ERROR:wiotp.sdk.device.client.DeviceClient:Unexpected disconnect from IBM Watson IoT Platform: 7
2022-11-19 09:59:46,450  wiotp.sdk.device.client.DeviceClient  INFO  Connected successfully: d:mw7mjd:NodeMCU:12345
```

IBM Watson IoT Platform

mithul@student.tce.edu
ID: mw7mjd

Browse Action Device Types Interfaces

Add Device

criteria. To get started, you can add devices by using the Add Device button, or by using API.

Q Search by Device ID

Device Simulator

	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
✓ ☐	12345	● Connected	NodeMCU	Device	Nov 18, 2022 7:14 PM	

Identity Device Information Recent Events State Logs ✕

Device ID   12345
Device Type   NodeMCU
Date Added   Nov 18, 2022 7:14 PM
Added By   mithul@student.tce.edu
Connection Status   Connected
                     Connection Time: Nov 19, 2022 3:33 PM
                     Client Address: 34.80.14.231 SecureToken

Items per page 50 ▾ | 1–1 of 1 item   1 of 1 page   < 1 ▾ >

mw7mjd.internetofthings.ibmcloud.com/dashboard/devices/drilldown/NodeMCU:12345?returnTo=/devices/browse

IBM **Watson IoT Platform**

mithul@student.tce.edu
ID: mw7mjd

← **Back**

Device Drilldown - 12345

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

Connection Information

Basic connection information about this device.

Device ID	12345
Device Type	NodeMCU
Date Added	Nov 18, 2022 7:14 PM
Added By	mithul@student.tce.edu
Connection Status	**Connected**
	Connection Time: Nov 19, 2022 3:35 PM
	Client Address: 34.80.14.231 SecureToken

Recent Events

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

Event	Value	Format	Last Received

←

---

mw7mjd.internetofthings.ibmcloud.com/dashboard/devices/drilldown/NodeMCU:12345?returnTo=/devices/browse

IBM **Watson IoT Platform**

mithul@student.tce.edu
ID: mw7mjd

← **Back**

Device Drilldown - 12345

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

Connection Logs

View logs for the device connection to Watson IoT Platform

Message	Timestamp
Closed connection. The client ID was reused.	Nov 19, 2022 3:34 PM
Closed connection. The client ID was reused.	Nov 19, 2022 3:34 PM
Token auth succeeded: ClientID='d:mw7mjd:NodeMCU:12345', ClientIP=34.80.14.231, ClientPort=38581, ConnectionId=36470267	Nov 19, 2022 3:34 PM
Token auth succeeded: ClientID='d:mw7mjd:NodeMCU:12345', ClientIP=34.80.14.231, ClientPort=42411, ConnectionId=36450327	Nov 19, 2022 3:34 PM
Token auth succeeded: ClientID='d:mw7mjd:NodeMCU:12345', ClientIP=34.80.14.231, ClientPort=51021, ConnectionId=36556517	Nov 19, 2022 3:34 PM
Token auth succeeded: ClientID='d:mw7mjd:NodeMCU:12345', ClientIP=34.80.14.231, ClientPort=40885, ConnectionId=36542856	Nov 19, 2022 3:34 PM
Token auth succeeded: ClientID='d:mw7mjd:NodeMCU:12345', ClientIP=34.80.14.231, ClientPort=47301, ConnectionId=36556447	Nov 19, 2022 3:34 PM
Token auth succeeded: ClientID='d:mw7mjd:NodeMCU:12345', ClientIP=34.80.14.231, ClientPort=41141, ConnectionId=36542804	Nov 19, 2022 3:34 PM

←