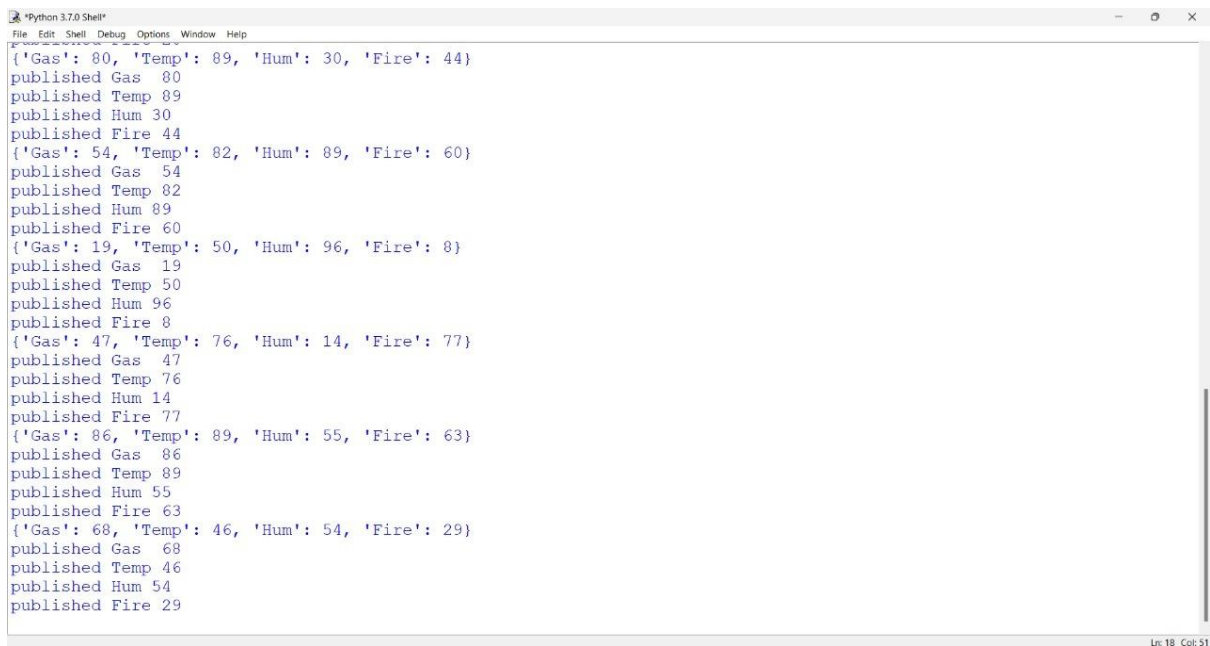


# CLOUD DEPLOYMENT

Team ID	PNT2022TMID43411
Team Members	JOTHI KRISHNA T - 715519106018  KARTHIKEYAN A - 715519106020  NITHIYANANTH S - 715519106031  VIPIN L - 715519106059
Project Title	Gas Leakage Monitoring And Alerting System For Industries

The output obtained from the python code is:



```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
{'Gas': 80, 'Temp': 89, 'Hum': 30, 'Fire': 44}
published Gas 80
published Temp 89
published Hum 30
published Fire 44
{'Gas': 54, 'Temp': 82, 'Hum': 89, 'Fire': 60}
published Gas 54
published Temp 82
published Hum 89
published Fire 60
{'Gas': 19, 'Temp': 50, 'Hum': 96, 'Fire': 8}
published Gas 19
published Temp 50
published Hum 96
published Fire 8
{'Gas': 47, 'Temp': 76, 'Hum': 14, 'Fire': 77}
published Gas 47
published Temp 76
published Hum 14
published Fire 77
{'Gas': 86, 'Temp': 89, 'Hum': 55, 'Fire': 63}
published Gas 86
published Temp 89
published Hum 55
published Fire 63
{'Gas': 68, 'Temp': 46, 'Hum': 54, 'Fire': 29}
published Gas 68
published Temp 46
published Hum 54
published Fire 29
Ln: 18 Col: 51
```

The data has been published to the IBM cloud. Thus in the python script, the values for the gas, temperature, humidity and fire have been generated and published to IBM cloud platform.

This is achieved by importing the required libraries in the python script and also specifying the organization, deviceType, deviceid, authMethod and authToken to integrate with the specific cloud account, so that the data will be published to IBM cloud platform.

## VIPIN L - 715519106059

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Browse Action Device Types Interfaces

Q Search by Device ID

Device S

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
789456	Connected	ESP32	Device	3 Nov 2022 10:59	

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
IoTSensor	{"Gas":10,"Temp":89,"Hum":59,"Fire":27}	json	a few seconds ago
IoTSensor	{"Gas":28,"Temp":8,"Hum":31,"Fire":77}	json	a few seconds ago
IoTSensor	{"Gas":45,"Temp":88,"Hum":15,"Fire":56}	json	a few seconds ago
IoTSensor	{"Gas":58,"Temp":31,"Hum":4,"Fire":24}	json	a few seconds ago
IoTSensor	{"Gas":17,"Temp":62,"Hum":49,"Fire":98}	json	a few seconds ago

0 Simulations running

## JOTHI KRISHNA T – 715519106018

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Q Search by Device ID

Device S

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234	Connected	Esp32	Device	3 Nov 2022 10:55	

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
IoTSensor	{"Gas":73,"Temp":45,"Hum":59,"Fire":36}	json	a few seconds ago
IoTSensor	{"Gas":58,"Temp":88,"Hum":55,"Fire":52}	json	a few seconds ago
IoTSensor	{"Gas":78,"Temp":6,"Hum":75,"Fire":67}	json	a few seconds ago
IoTSensor	{"Gas":87,"Temp":33,"Hum":87,"Fire":46}	json	a few seconds ago
IoTSensor	{"Gas":8,"Temp":19,"Hum":33,"Fire":36}	json	a few seconds ago

**KARTHIKEYAN A – 715519106020**

The screenshot displays the IBM Watson IoT Platform user interface. At the top, there's a navigation bar with "Browse", "Action", "Device Types", and "Interfaces". A search icon is visible next to "Browse". Below this, a table lists devices. The selected device has ID "12345678", status "Connected", type "ESP32", class "Device", and was added on "Nov 3, 2022 11:19 AM".

Below the device list, there are tabs for "Identity", "Device Information", "Recent Events", "State", and "Logs". The "Recent Events" tab is active, showing a live stream of data from the device.

Event	Value	Format	Last Received
IoTSensor	{"Gas":7,"Temp":26,"Hum":44,"Fire":9}	json	a few seconds ago
IoTSensor	{"Gas":19,"Temp":30,"Hum":97,"Fire":69}	json	a few seconds ago
IoTSensor	{"Gas":52,"Temp":55,"Hum":24,"Fire":82}	json	a few seconds ago
IoTSensor	{"Gas":15,"Temp":38,"Hum":3,"Fire":17}	json	a few seconds ago
IoTSensor	{"Gas":38,"Temp":48,"Hum":23,"Fire":55}	json	a few seconds ago

On the right side, there's a sidebar with links: "Service Status", "Terms", "Privacy", "Support", and "Blog". Below these links, it says "Sign Out". At the bottom right, a status box indicates "0 Simulations running".

**NITHIYANANTH S – 715519106031**

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[Browse](#)   Action   Device Types   Interfaces

Device S

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
▼ <input type="checkbox"/>	123456	<span style="color: green;">●</span> Connected	ESP32	Device	2 Nov 2022 20:09	

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
IoTSensor	{"Gas":39,"Temp":74,"Hum":72,"Fire":85}	json	a few seconds ago
IoTSensor	{"Gas":100,"Temp":10,"Hum":71,"Fire":89}	json	a few seconds ago
IoTSensor	{"Gas":21,"Temp":64,"Hum":80,"Fire":91}	json	a few seconds ago
IoTSensor	{"Gas":91,"Temp":90,"Hum":61,"Fire":35}	json	a few seconds ago
IoTSensor	{"Gas":53,"Temp":37,"Hum":19,"Fire":79}	json	a few seconds ago

**93elj1**  
 ID: 93elj1  
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