# Project Development Phase

## Sprint-2

| | |
|---|---|
| Date | 05 November 2022 |
| Team Id | PNT2022TMID30274 |
| Project Name | Gas Leakage Monitoring & Alerting System for Industries |

In this sprint, we are getting the Data from python Code for random sensor data of Hazardous gas levels

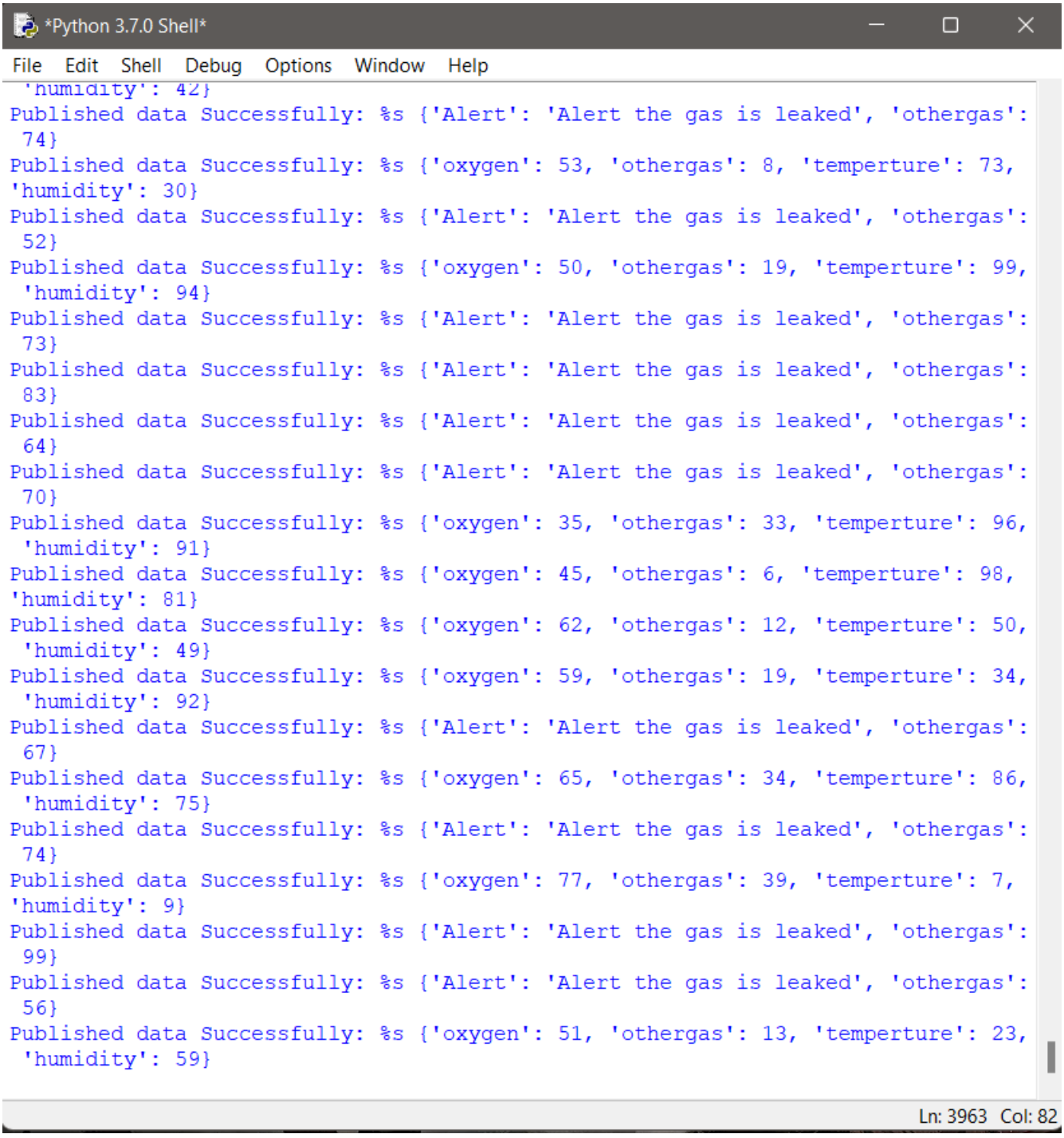
Solution:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "b31tni",
        "typeId": "print1",
        "deviceId":"printid"
    },
    "auth": {
        "token": "z?7tcRfcekcO08R6f2"
    }
}
```

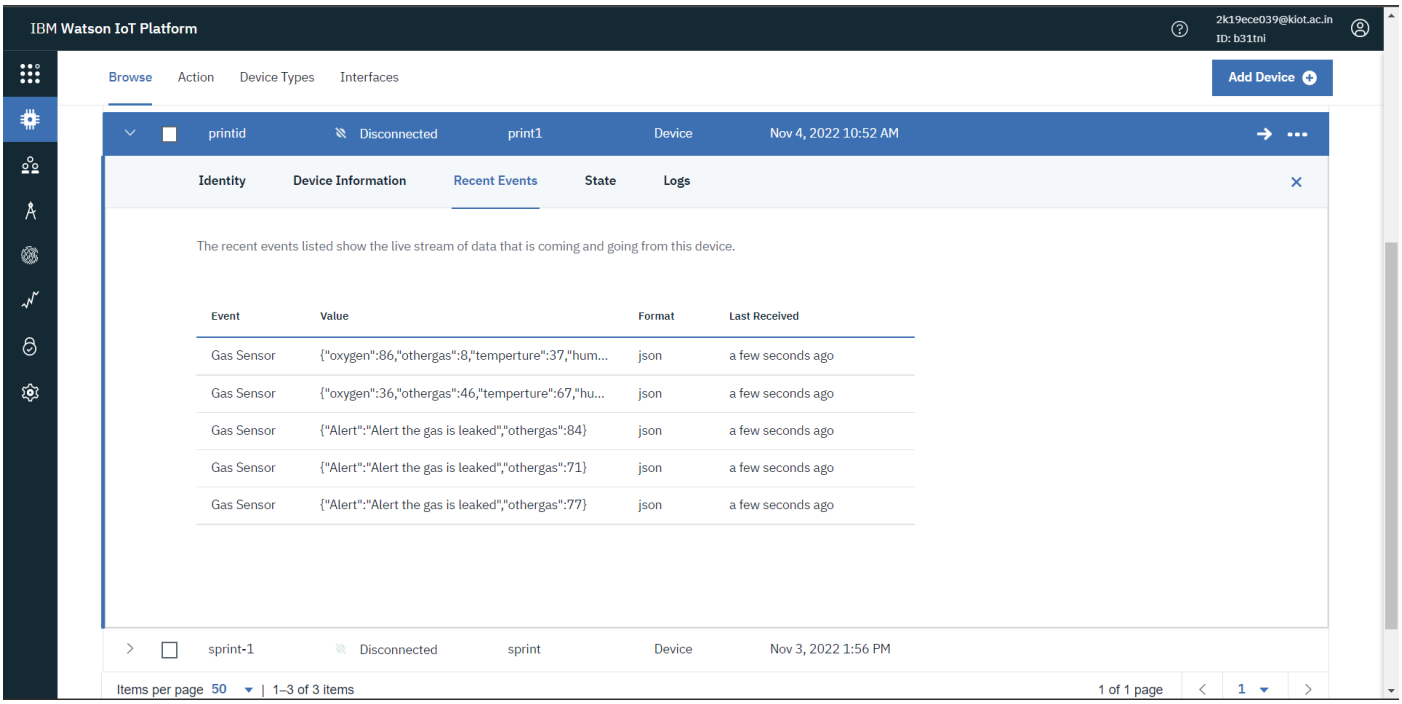
```
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
    m=cmd.data['command']


client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()


while True:
    o2=random.randint(25,100)
    def my_function():
        othergas=random.randint(0,100)
        time.sleep(5)
        return othergas
    othergas=my_function()
    temp=random.randint(0,100)
    humidity=random.randint(0,100)
    limit=50
    if(othergas >= limit):
        myData = { 'Alert': "Alert the gas is leaked",'othergas':othergas}
    else:
        myData={'oxygen':o2, 'othergas':othergas,
'temperture':temp,'humidity':humidity}
```

```
    client.publishEvent(eventId="Gas Sensor", msgFormat="json",
data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(5)
client.disconnect()
```

Output:



# IBM Cloud:




# Node-Red Receiver: