# 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)
```

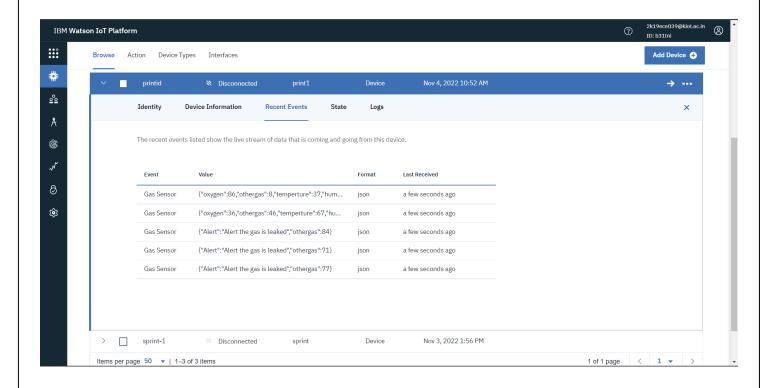
#### Output:

client.disconnect()

```
*Python 3.7.0 Shell*
File Edit Shell Debug Options Window
                                  Help
 'humidity': 42}
Published data Successfully: %s {'Alert': 'Alert the gas is leaked', 'othergas':
Published data Successfully: %s {'oxygen': 53, 'othergas': 8, 'temperture': 73,
'humidity': 30}
Published data Successfully: %s {'Alert': 'Alert the gas is leaked', 'othergas':
Published data Successfully: %s {'oxygen': 50, 'othergas': 19, 'temperture': 99,
 'humidity': 94}
Published data Successfully: %s {'Alert': 'Alert the gas is leaked', 'othergas':
Published data Successfully: %s {'Alert': 'Alert the gas is leaked', 'othergas':
Published data Successfully: %s {'Alert': 'Alert the gas is leaked', 'othergas':
Published data Successfully: %s {'Alert': 'Alert the gas is leaked', 'othergas':
Published data Successfully: %s {'oxygen': 35, 'othergas': 33, 'temperture': 96,
 'humidity': 91}
Published data Successfully: %s {'oxygen': 45, 'othergas': 6, 'temperture': 98,
'humidity': 81}
Published data Successfully: %s {'oxygen': 62, 'othergas': 12, 'temperture': 50,
 'humidity': 49}
Published data Successfully: %s {'oxygen': 59, 'othergas': 19, 'temperture': 34,
 'humidity': 92}
Published data Successfully: %s {'Alert': 'Alert the gas is leaked', 'othergas':
Published data Successfully: %s {'oxygen': 65, 'othergas': 34, 'temperture': 86,
 'humidity': 75}
Published data Successfully: %s {'Alert': 'Alert the gas is leaked', 'othergas':
Published data Successfully: %s {'oxygen': 77, 'othergas': 39, 'temperture': 7,
'humidity': 9}
Published data Successfully: %s {'Alert': 'Alert the gas is leaked', 'othergas':
Published data Successfully: %s {'Alert': 'Alert the gas is leaked', 'othergas':
Published data Successfully: %s {'oxygen': 51, 'othergas': 13, 'temperture': 23,
 'humidity': 59}
```

Ln: 3963 Col: 82

### **IBM Cloud:**



## Node-Red Receiver:

