# SPRINT - 1

DATE	29/10/2022
TEAM ID	PNT2022TMID22887
PROJECT NAME	GAS LEAKAGE MONITORING &
	ALERTING SYSTEM FOR INDUSTRIES
MAXIMUM MARKS	2

## **PYTHON SCRIPT:**

import wiotp.sdk.device

import time

```
import random
```

```
myConfig = {
  "identity": {
     "orgId": "38mp1z",
     "typeId": "NodeMCU",
     "deviceId":"12345"
```

```
},
  "auth": {
    "token": "n-KgpsSRRRSimlWg*("
  }
}
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:
  gas=random.randint(200,1500)
  tem=random.randint(0,100)
  hum=random.randint(0,100)
  pre=random.randint(12,25)
  if gas<1000:
    san=("Normal")
    s1=0
  else:
    san=("Danger Leakage")
    s1=1
  myData={'gaslevel':gas,"status":san,"st":s1,"pr":pre,"temp":tem,"hu":hum}
```

```
#myData={'co2 level in ppm':gas}
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()

## **SCRIPT OUTPUT:**

```
File Eds Sed Debug Options Window Hep

File Eds Sed Debug Options Window Hep

Fibilished data Successfully: % ('qualevel': 039, 'status': 'Normal', 'st': 0, 'pr': 13, 'teemp': 32, 'thu': 13)

Fibilished data Successfully: % ('qualevel': 509, 'status': 'Normal', 'st': 0, 'pr': 13, 'teemp': 36, 'thu': 61)

Fibilished data Successfully: % ('qualevel': 509, 'status': 'Normal', 'st': 0, 'pr': 13, 'teemp': 36, 'thu': 61)

Fibilished data Successfully: % ('qualevel': 509, 'status': 'Normal', 'st': 0, 'pr': 31, 'teemp': 36, 'thu': 61)

Fibilished data Successfully: % ('qualevel': 308, 'status': 'Normal', 'st': 0, 'pr': 25, 'teemp': 40, 'thu': 20)

Fibilished data Successfully: % ('qualevel': 93, 'status': 'Normal', 'st': 0, 'pr': 25, 'teemp': 40, 'thu': 20)

Fibilished data Successfully: % ('qualevel': 93, 'status': 'Normal', 'st': 0, 'pr': 25, 'teemp': 11, 'thu': 90)

Fibilished data Successfully: % ('qualevel': 93, 'status': 'Normal', 'st': 0, 'pr': 25, 'teemp': 11, 'thu': 17)

Fibilished data Successfully: % ('qualevel': 93, 'status': 'Normal', 'st': 0, 'pr': 25, 'teemp': 11, 'thu': 90)

Fibilished data Successfully: % ('qualevel': 108, 'status': 'Normal', 'st': 0, 'pr': 25, 'teemp': 11, 'thu': 37)

Fibilished data Successfully: % ('qualevel': 108, 'status': 'Normal', 'st': 0, 'pr': 24, 'teemp': 11, 'thu': 37)

Fibilished data Successfully: % ('qualevel': 106, 'status': 'Normal', 'st': 0, 'pr': 24, 'teemp': 11, 'thu': 37)

Fibilished data Successfully: % ('qualevel': 106, 'status': 'Normal', 'st': 0, 'pr': 14, 'teemp': 11, 'thu': 37)

Fibilished data Successfully: % ('qualevel': 740, 'status': 'Normal', 'st': 0, 'pr': 14, 'teemp': 14, 'thu': 37)

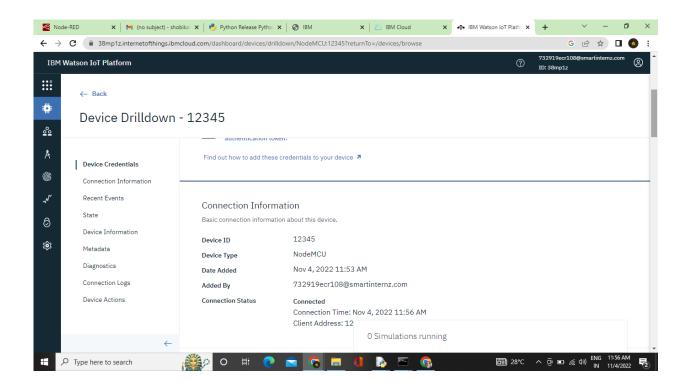
Fibilished data Successfully: % ('qualevel': 750, 'status': 'Normal', 'st': 0, 'pr': 14, 'teemp': 57, 'thu': 80)

Fibilished data Successfully: % ('qualevel': 750, 'status': 'Normal', 'st': 0, 'pr': 14, 'teemp': 57, 'thu': 80)

Fibilished data Successfully: % ('qualevel': 750, 'status': 'Normal', 'st': 0, 'pr': 14, 'teemp': 57, 'thu': 80)

Fibilished data Successfully: % ('
```

### **ACCOUNT IN IBM WATSON:**



## **IOT WATSON OUTPUT:**

