

DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IoT PLATFORM
PYTHON CODE

Team ID	PNT2022TMID41307
Project Name	Gas Leakage Monitoring and Alerting System for Industries

Python Code:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity":
    {
        "orgId": "9yby55",
        "typeId": "Gas",
        "deviceId": "18"
    },
    "auth":
    {
        "token": "zlbdsvljWkP@1S34*&"
    }
}

def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="sprinkleron":
        print (" Rainwater sprinkler is ON")
    elif status=="sprinkleroff":
        print (" Rainwater sprinkler is OFF")
    else:
        print ("please send proper command")

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

while True:

TemperatureZ1=random.randint(0,100)

HumidityZ1=random.randint(0,100)

GasLevelZ1=random.randint(0,100)

PressureZ1=random.randint(0,100)

TemperatureZ2=random.randint(0,100)

HumidityZ2=random.randint(0,100)

GasLevelZ2=random.randint(0,100)

PressureZ2=random.randint(0,100)

myData={'TemperatureZ1':TemperatureZ1,'HumidityZ1':HumidityZ1,'GasLevelZ1':GasLevelZ1,

'PressureZ1':PressureZ1,'TemperatureZ2':TemperatureZ2

'HumidityZ2':HumidityZ2,'GasLevelZ2':GasLevelZ2,'PressureZ2':PressureZ2}

client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)

print("Published data Successfully: %s", myData ,"to the IBM Platform")

client.commandCallback = myCommandCallback

time.sleep(2)

client.disconnect()

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