PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

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Team ID	PNT2022TMID21050
Project Name	Gas leakage monitoring and alerting system for industries

```python
#IBM Watson IOT Platform

#pip install wiotp-sdk import

wiotp.sdk.device import time

import random

myConfig = { "identity": {

    "orgId": "4o5bpf",

    "typeId": "TestDeviceType",

    "deviceId":"28122001"

  },

  "auth": {

    "token": "rlerLKxv&K2!a0FFQC"

  }

}

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(0,100)

    temp=random.randint(0,100)hu

    m=random.randint(0,100)

    pre=random.randint(0,100)

    myData={

      'Hazardous Gas':gas,

      'Temperature':temp,

      'Humidity':hum,

      'Pressure':pre

  }
```

```python
    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()
```