

DEVELOP PYTHON SCRIPT

Team ID	PNT2022TMID41967
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

code:

```
#IBM Watson IOT Platform
```

```
#pip install wiotp-sdk
```

```
import wiotp.sdk.device
```

```
import time
```

```
import random
```

```
myConfig = {
```

```
    "identity": {
```

```
        "orgId": "3bc6ow",
```

```
        "typeId": "Nodemcu",
```

```
        "deviceId": "6225"
```

```
    },
```

```
    "auth": {
```

```
        "token": "622519106053"
```

```
    }
```

```
}
```

```
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:  
    temp=random.randint(-20,125)  
    hum=random.randint(0,100)  
    myData={'temperature':temp, 'humidity':hum}  
    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()
```

Output:

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Published data Successfully: %s {'temperature': 57, 'humidity': 57}

===== RESTART: C:/python/Python36/syed s.py =====
2022-11-15 23:26:16,901 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:3bc6
ow:Nodemcu:6225Published data Successfully: %s
{'temperature': 27, 'humidity': 44}
Published data Successfully: %s {'temperature': 109, 'humidity': 35}
Published data Successfully: %s {'temperature': 104, 'humidity': 19}
Published data Successfully: %s {'temperature': 44, 'humidity': 15}
Published data Successfully: %s {'temperature': 54, 'humidity': 26}
Published data Successfully: %s {'temperature': 5, 'humidity': 14}
Published data Successfully: %s {'temperature': 99, 'humidity': 91}
Published data Successfully: %s {'temperature': 66, 'humidity': 85}
Published data Successfully: %s {'temperature': 49, 'humidity': 0}
Published data Successfully: %s {'temperature': 54, 'humidity': 40}
Published data Successfully: %s {'temperature': 5, 'humidity': 44}
Published data Successfully: %s {'temperature': 14, 'humidity': 25}
Published data Successfully: %s {'temperature': 18, 'humidity': 43}
Published data Successfully: %s {'temperature': 13, 'humidity': 35}
Published data Successfully: %s {'temperature': 89, 'humidity': 12}
Published data Successfully: %s {'temperature': -2, 'humidity': 28}
Published data Successfully: %s {'temperature': 9, 'humidity': 60}
Published data Successfully: %s {'temperature': 68, 'humidity': 21}
Published data Successfully: %s {'temperature': 20, 'humidity': 2}
Published data Successfully: %s {'temperature': 118, 'humidity': 70}
Published data Successfully: %s {'temperature': 66, 'humidity': 61}
Published data Successfully: %s {'temperature': 2, 'humidity': 76}
Published data Successfully: %s {'temperature': 43, 'humidity': 7}

Ln: 77 Col: 0
```


