

PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

Team ID PNT2022TMID49801

Project Name Smart Waste Management System For Metropolitan Cities

```
#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) hum=random.randint(0,100)
pre=random.randint(0,100) myData={'Hazardous Gas':gas,
'Temperature':temp, 'Humidity':hum,

'Pressure':pre }
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()
```