## PYTHON SCRIPT TO PUBLISH DATA TO IBM CLOUD

Date	12 NOVEMBER 2022
Team ID	PNT2022TMID43127
Project Name	SMART WASTE MANAGEMENT SYSTEM
	FOR METROPOLITAN CITIES
Maximum marks	8 Marks

# **PYTHON CODE:**

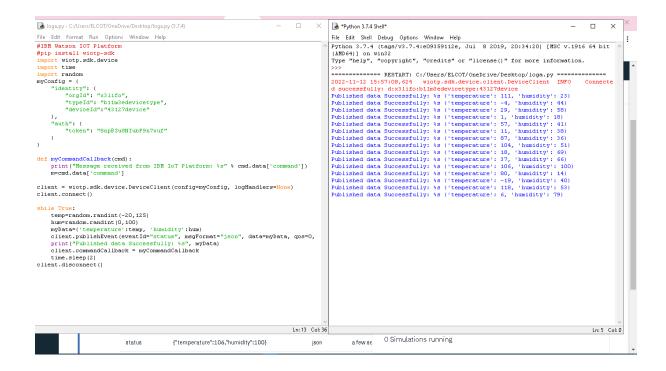
```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
  "identity": {
    "orgId": "hj5fmy",
    "typeId": "NodeMCU",
    "deviceId":"12345"
  },
  "auth": {
    "token": "12345678"
  }
}
```

```
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()
```

# **PYTHON CODE:**

### **PYTHON OUTPUT:**

```
*Python 3.7.4 Shell*
                                                                          \Box
                                                                               ×
File Edit Shell Debug Options Window Help
Python 3.7.4 (tags/v3.7.4:e09359112e, Jul 8 2019, 20:34:20) [MSC v.1916 64 bit
(AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
====== RESTART: C:/Users/ELCOT/OneDrive/Desktop/loga.py =========
2022-11-12 16:03:37,102
                        wiotp.sdk.device.client.DeviceClient INFO
d successfully: d:x3lifo:b11m3edevicetype:43127device
Published data Successfully: %s ('temperature': 54, 'humidity': 94)
Published data Successfully: %s ('temperature': 80, 'humidity': 27)
Published data Successfully: %s {'temperature': 90, 'humidity': 23}
Published data Successfully: %s ('temperature': 36, 'humidity': 6)
Published data Successfully: %s ('temperature': 121, 'humidity': 24)
Published data Successfully: %s {'temperature': 1, 'humidity': 16}
Published data Successfully: %s {'temperature': 20, 'humidity': 84}
                                                                         Ln: 12 Col: 0
```



## **IBM WATSON OUTPUT:**

