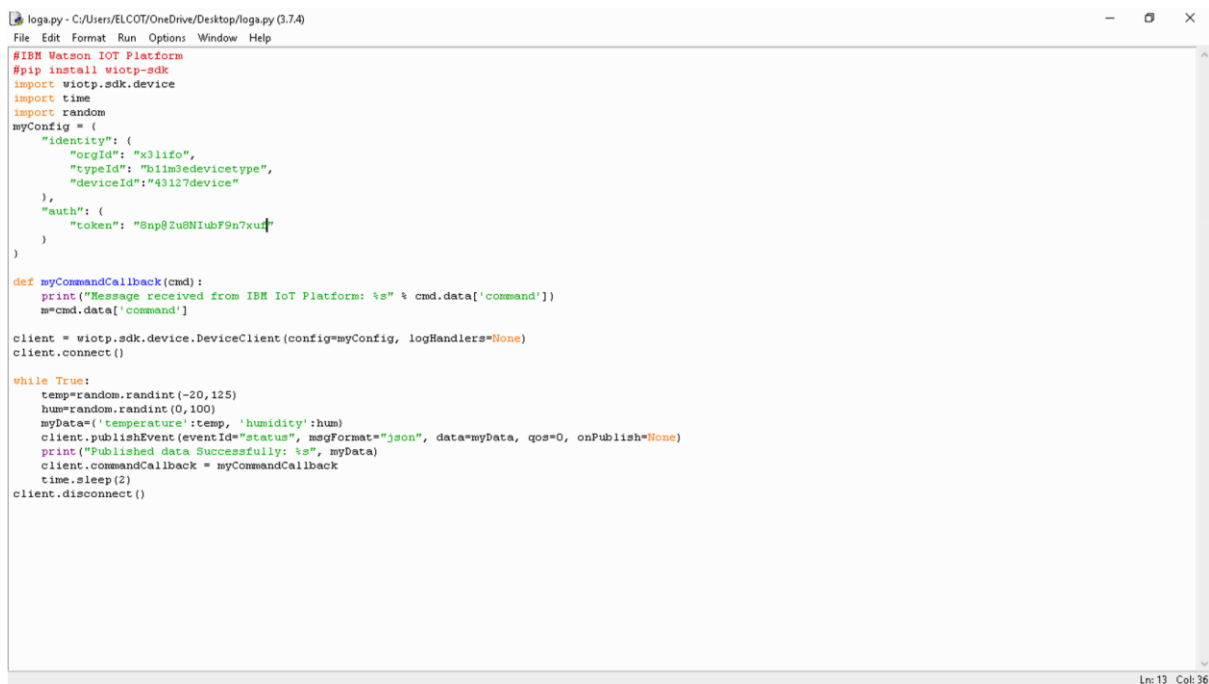


TO DEVELOP A PYTHON SCRIPT

Date	18 NOVEMBER 2022
Team ID	PNT2022TMID43116
Project Name	SMARTFARMING- IOT ENABLED SMARTFARMING APPLICATION
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": "x3lifo",
        "typeId": "b1lm3edevicetype",
        "deviceId": "43127device"
    },
    "auth": {
        "token": "8np@Zu8NIubF9n7xu4"
    }
}

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 3.7.4 Shell*
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 Connecte
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