

PYTHON SCRIPT DEVELOPING

DATE	12-11-2022
TEAM ID	PNT2022TMID26592
PROJECT TITLE	Hazardous area monitoring for industrial power plant powered by IoT

PYTHON SCRIPT:

```
code.py - C:\Users\asun\AppData\Local\Programs\Python\Python39\code.py (3.9.6)
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|Connecting the python to IBM watson IoT platform
import wiotp.adk.device
import time
import random
myconfig = {
    "identity":{
        "orgId":"arrvgaf",
        "typeId":"IoT_devices",
        "deviceId":"12345"
    },
    "auth":{
        "token":"qagOta7(qV+deBQ+g=="
    }
}
def myCommandCallback(cmd):
    print("Message received from IBM IoT platform: %s" % cmd.data['command'])
    mcmd.data['command']
    if (cmd=="lighton"):
        print("////////LIGHTS ARE ON////////")
    elif (cmd=="lightoff"):
        print("////////LIGHTS ARE OFF////////")
    else:
        print("////////WRONG COMMAND////////")
client = wiotp.adk.device.DeviceClient(config=myconfig, logHandler=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()
```

