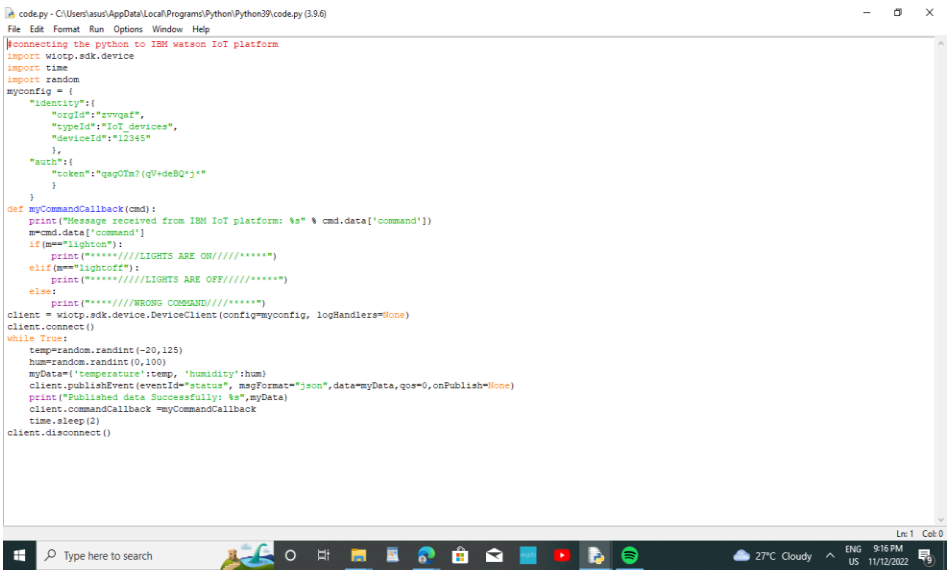
PYTHON SCRIPT DEVELOPING

DATE	12-11-2022
TEAM ID	PNT2022TMID49260
PROJECT TITLE	Hazardous area monitoring for industrial power plant powered by IoT

PYTHON SCRIPT:



```
#connecting the python to IBM watson IoT platform
import wiotp.sdk.device
import time
import random
myconfig = {
    "identity":{
        "orgId":"zvvqaf",
        "typeId":"IoT_devices",
        "deviceId":"12345"
        },
    "auth":{
        "token":"qagOTm?(qV+deBQ*j*"
        }
    }
def myCommandCallback(cmd):
    print("Message received from IBM IoT platform: %s" % cmd.data['command'])
    m=cmd.data['command']
    if(m=="lighton"):
        print("*****////LIGHTS ARE ON/////*****")
    elif(m=="lightoff"):
        print("*****////LIGHTS ARE OFF/////*****")
    else:
        print("*****////WRONG 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()
```