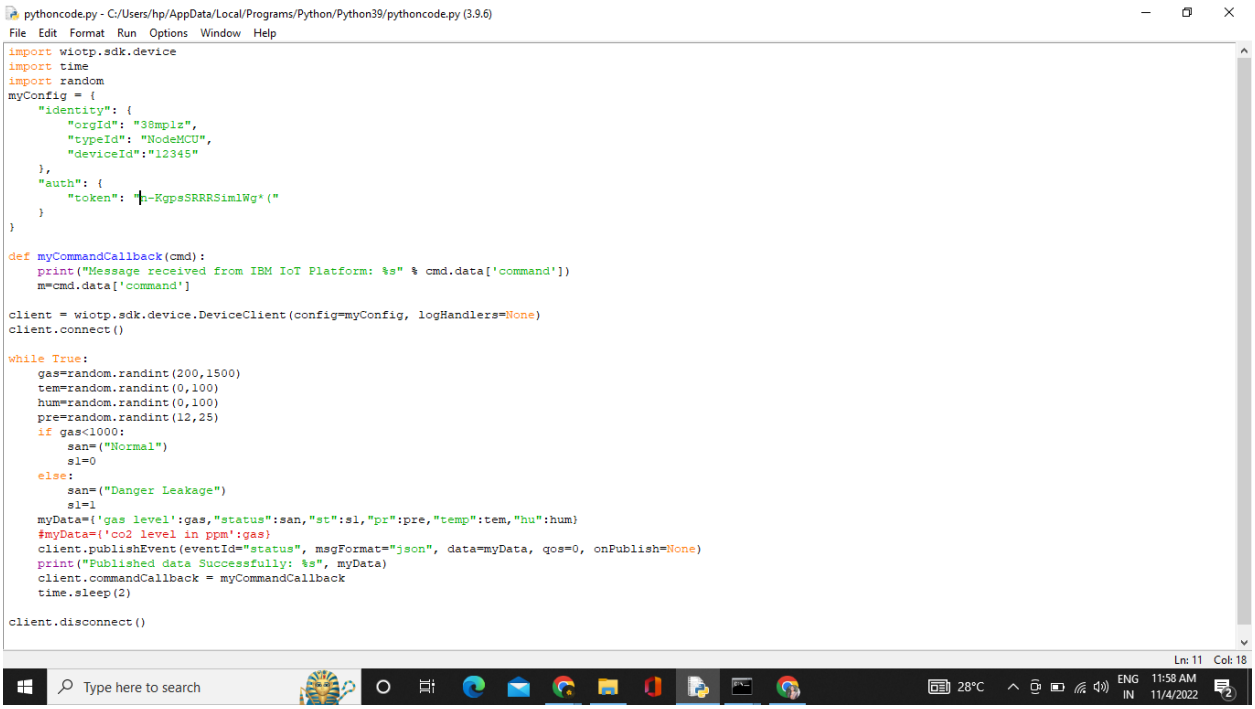
SPRINT – 1

DATE	29/10/2022
TEAM ID	PNT2022TMID22887
PROJECT NAME	GAS LEAKAGE MONITORING & ALERTING SYSTEM FOR INDUSTRIES
MAXIMUM MARKS	2

PYTHON SCRIPT:



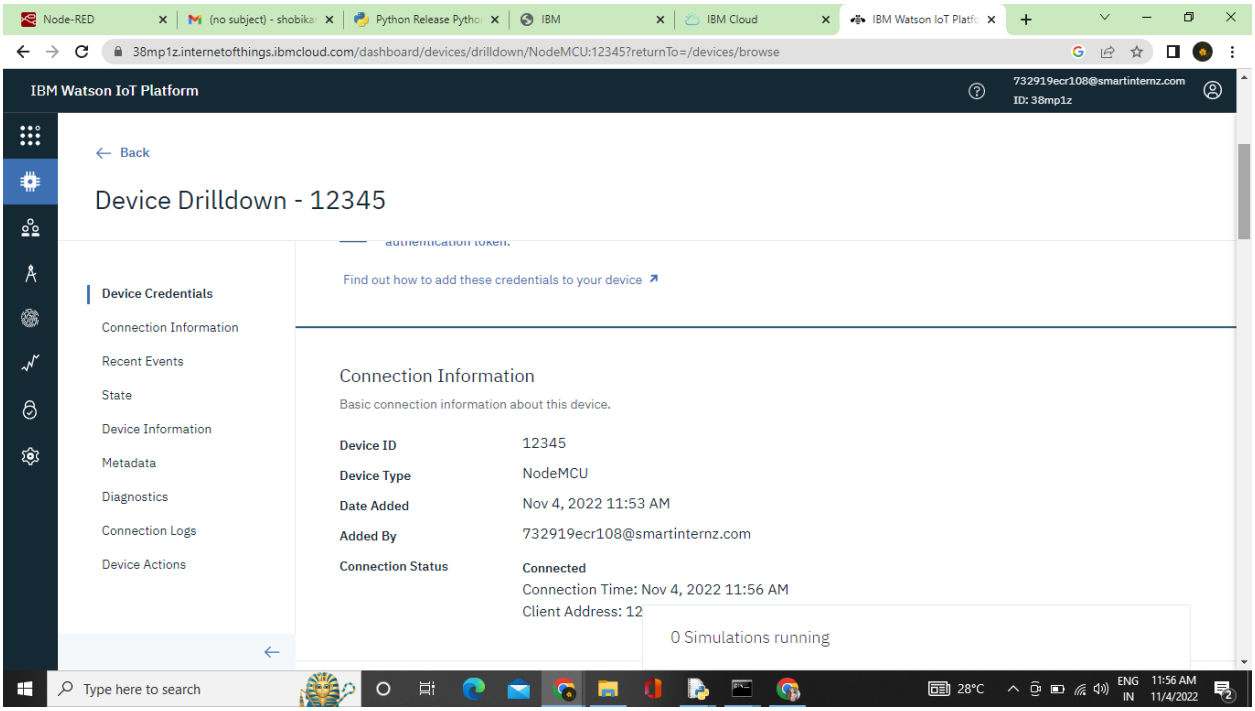

```
import wiotp.sdk.device

import time

import random

myConfig = {

    "identity": {

        "orgId": "38mp1z",

        "typeId": "NodeMCU",

        "deviceId":"12345"
```

```
    },
    "auth": {
        "token": "n-KgpsSRRRSimlWg*("
    }
}

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(200,1500)
    tem=random.randint(0,100)
    hum=random.randint(0,100)
    pre=random.randint(12,25)
    if gas<1000:
        san=("Normal")
        s1=0
    else:
        san=("Danger Leakage")
        s1=1
    myData={'gaslevel':gas,"status":san,"st":s1,"pr":pre,"temp":tem,"hu":hum}
```

```
    #myData={'co2 level in ppm':gas}

    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()
```

SCRIPT OUTPUT:

ACCOUNT IN IBM WATSON:



IOT WATSON OUTPUT: