PYTHON CODE FOR GAS, TEMPERATURE AND HUMIDITY

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Team ID	PNT2022TMID27029
Project Name	Gas Leakage Monitoring and Alerting
	System
Maximum Mark	4 marks

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PYTHON CODE:

```
#IBM Watson IOT Platform

#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random

myConfig = {
    "identity": {
        "orgId": "8eoyrc",
        "typeId": "Testdevicetype",
        "deviceId":"12345"
    },
    "auth": {
        "token": "SaoaG_v?EC+&WvCW06"
```

```
}
def myCommandCallback(cmd):
  print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
  m=cmd.data['command']
  if(m=="light on"):
    print("******LIGHTS ON*****")
  else:
    print("*****LIGHTS OFF*****")
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
  temp=random.randint(-20,125)
  hum=random.randint(0,100)
  gas=random.randint(0,100)
  myData={'temperature':temp, 'humidity':hum,'hazardousgas':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()
```

OUTPUT:






