

DEVELOP THE PYTHON CODE

TEAM ID	PNT2022TMID15087
PROJECT TITLE	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES
TEAM MEMBERS	1.NAVEEN KARTHICK R 2.ANITHA K 3.KANIMOZHI J 4.AARTISHA S

DEVELOP THE CODE:

DEVELOPING THE PYTHON CODE:

```
PNT2022TMID15087.py - C:\Users\Ajay Ganesh\Desktop\PNT2022TMID15087.py (3.7.0)
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import json
import random
import wiotp.sdk.device
import time
import ibmiotf.application
import ibmiotf.device
import requests, json

myConfig = {
    "identity": {
        "orgId": "hib5xp",
        "typeId": "rasberrypi",
        "deviceId": "1234"
    },
    "auth": {
        "token": "abdefgh"
    }
}

client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    name= "PNT2022TMID15087"

    latitude= 11.055712
    longitude= 76.804089
    gas = random.randint(0,600)
    temperature=random.randint(20,40)
    humidity=random.randint(40,60)
    if (gas>300):
        alarm=1
    else:
        alarm=0

    mydata={'name': name, 'lat':latitude, 'lon':longitude, 'gas':gas, 'alarm':alarm, 'temp':temperature, 'hum':humidity}
    client.publishEvent(eventId="status", msgFormat="json", data=mydata, qos=0, onPublish=None)
    print("Data published to IBM IoT platform: ",mydata)
    time.sleep(10)

client.disconnect()
```

The python code has been developed successfully.