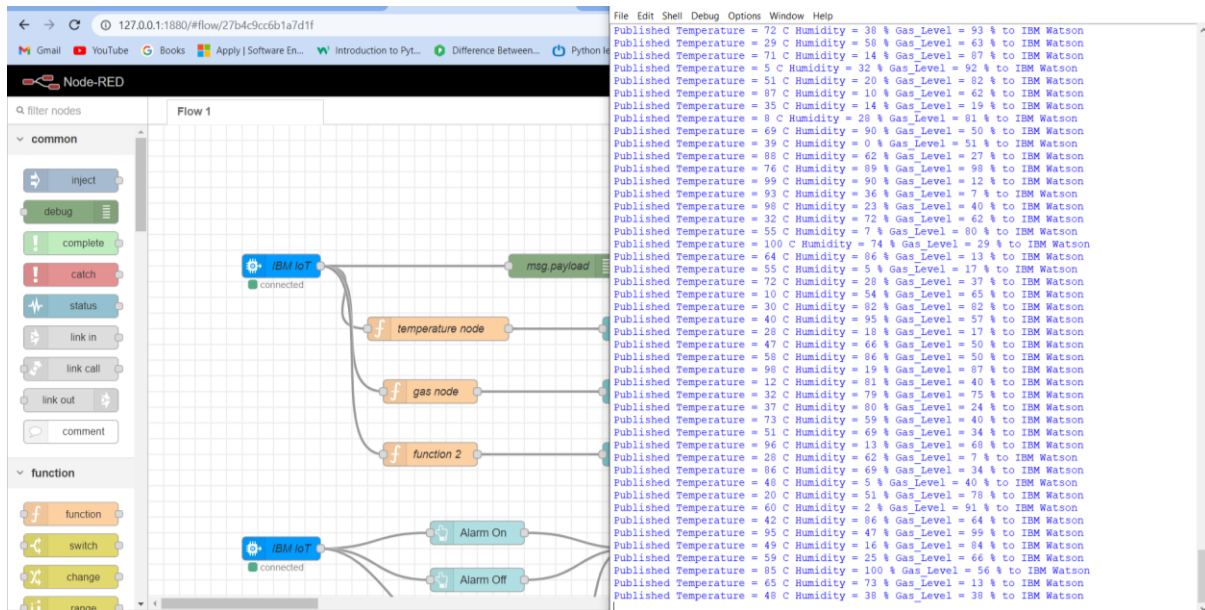


# Develop A Python Script To Publish And Subscribe To IBM IoT Platform

## Publish Data To The IBM Cloud

Date	5 November 2022
Team ID	PNT2022TMID47483
Project Name	Project – Gas leakage monitoring and alerting system for industries



```
File Edit Format Run Options Window Help
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "wq4nsy"
deviceType = "PNT2022TMID47483"
deviceId = "PNT2022TMID47483DEVICEID"
authMethod = "token"
authToken = "0vz0x8f0LrhADWkj!"

# Initialize GPIO

def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="alarmon":
        print("Alarm is on")
    elif (status == "alarmoff") :
        print ("Alarm is off")
    elif status == "sprinkleron":
        print("Sprinkler is ON")
    elif status == "sprinkleroff":
        print("Sprinkler is OFF")
    elif status == "sprinkleron":
        print("Sprinkler is ON")
    #print(cmd)

try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "auth-meth": authMethod, "auth-token": authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
    #.....
except Exception as e:
    print("Caught exception connecting device: %s" % str(e))
    sys.exit()

# Connect and send a datapoint "hello" with value "world" into the cloud as an event of type deviceCli.connect()

while True:
    #Get Sensor Data from DHT11
```