Project development phase

Sprint - 2

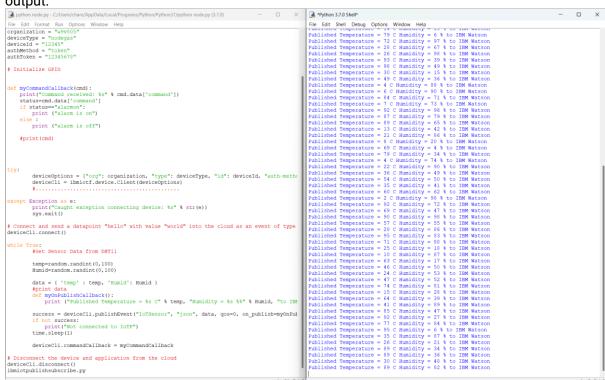
Date	05 Nov 2022
Team ID	PNT2022TMID46768
Project Name	Gas leakage Monitering and alerting System for Industries

Step-1

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "w9v805"
deviceType = "nodegas"
deviceId = "12345"
authMethod = "token"
authToken = "12345678"
# Initialize GPIO
def myCommandCallback(cmd):
   print("Command received: %s" % cmd.data['command'])
   status=cmd.data['command']
   if status=="alarmon":
       print ("alarm is on")
   else :
       print ("alarm is off")
   #print(cmd)
try:
       deviceOptions = {"org": organization, "type": deviceType, "id":
deviceId, "auth-method": 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 "greeting" 10 times
```

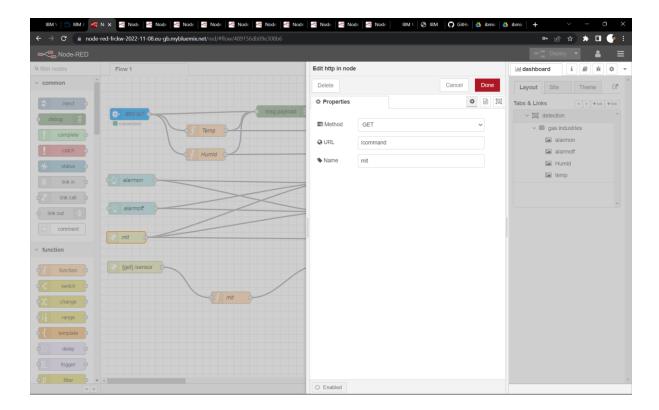
```
deviceCli.connect()
while True:
       #Get Sensor Data from DHT11
        temp=random.randint(0,100)
        Humid=random.randint(0,100)
        data = { 'temp' : temp, 'Humid': Humid }
        #print data
        def myOnPublishCallback():
            print ("Published Temperature = %s C" % temp, "Humidity = %s
%%" % Humid, "to IBM Watson")
       success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on publish=myOnPublishCallback)
       if not success:
           print("Not connected to IoTF")
        time.sleep(1)
        deviceCli.commandCallback = myCommandCallback
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```

output:



https://node-red-frckw-2022-11-08.eu-gb.mybluemix.net/red/#flow/489156db09e308b6

Get/command



Get / sensor

