SPRINT-2

TEAM ID: PNT2022TMID04636

PROJECT TITLE: Gas Leakage monitoring & Alerting system for Industries

Source code to deployed on IBM Watson Iot platform to generate the sensor data.

SOURCE CODE:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
organization = "iv7q52"
deviceType = "shahidh"
deviceId = "9876"
authMethod = "token"
# Initialize GPIO
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()
deviceCli.connect()
  temp=random.randint(90,110)
 humid=random.randint(60,100)
 propane = random.randint(0, 2000);
  CO = random.randint(0, 100);
  lpg= random.randint(0, 2000);
  methane = random.randint(0, 1000);
```

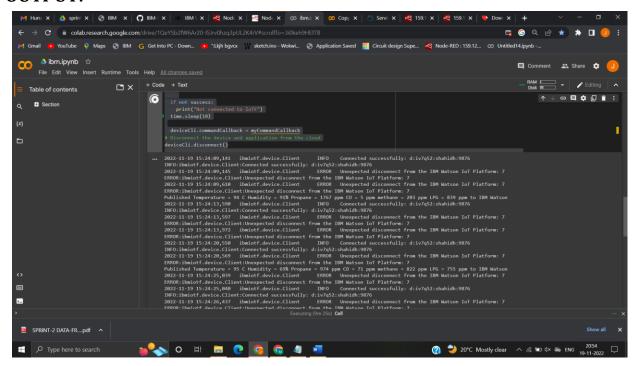
```
data = { 'temp' : temp, 'humid': humid, "propane": propane,
   "CO": CO,
   "lpg": lpg,
   "methane": methane,
   }
   #print data
   def myOnPublishCallback():
        print ("Published Temperature = %s C" % temp, "Humidity = %s%%" % hum
id, "Propane = %s ppm" % propane, "CO = %s ppm" % CO, "methane = %s ppm" % m
ethane, "LPG = %s ppm" % lpg, "to IBM Watson")

success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,on_pu
blish=myOnPublishCallback)

if not success:
    print("Not connected to IoTF")
    time.sleep(10)

deviceCli.commandCallback = myCommandCallback
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```

OUTPUT:



SENSOR DATA:

