## PYTHON CODE TO PUBLISH DATA TO IBM CLOUD

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Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

## Code:

```
import time
 import sys
 import ibmiotf.application
 import ibmiotf.device
 import random
 #Provide your IBM Watson Device Credentials
 organization = "s0uwr0"
 deviceType = "weather_device"
 deviceId = "vpsr weather"
 authMethod = "token"
 authToken = "9mMbsPkwZ-NtBMUAPc"
# Initialize GPIO
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
 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
    Propane = random.randint(0, 2000);
    Carbon Monoxide = random.randint(0, 100);
    LPG= random.randint(0, 2000);
    Methane = random.randint(0, 1000);
    Hydrogen= random.randint(0, 5000);
    data = {"d":{
  "Propane": Propane,
 "Carbon Monoxide": Carbon Monoxide,
 "LPG": LPG,
 "Methane": Methane.
 "Hydrogen":Hydrogen
   }
    #print data
    def mvOnPublishCallback():
      print ("Published Propane = %s ppm" % Propane, "LPG = %s ppm" % LPG, "to
IBM Watson")
    success = deviceCli.publishEvent("IoTSensor", "json", data, gos=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()
```





