

## GAS LEAKAGE MONITORING ALERTING SYSTEM FOR INDUSTRIES

<b>TITLE</b>	GAS LEAKAGE MONITORING ALERTING SYSTEM FOR INDUSTRIES
<b>DOMAIN NAME</b>	INTERNET OF THINGS
<b>TEAM ID</b>	PNT2022TMID05388
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```
import time import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device
Credentials organization = "5py6q9"
deviceType = "Weather_now" deviceId =
"Weather1234" authMethod = "token"
authToken = "XeJFia7_@ @t9@ @eq_?"

# Initialize GPIO def myCommandCallback(cmd):
print("Command received: %s" %
cmd.data['command']) status=cmd.data['command'] if
status=="lighton": 2 print ("led is on") elif status ==
"lightoff":
print ("led is off")
else :
print ("please send proper command")
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(90,110)

    Humid=random.randint(60,100) data =
    { 'temp' : temp, 'Humid': Humid }

    #print data def
    myOnPublishCallback():

    print ("Published Temperature = %s C" % temp, "Humidity = %s %" % Humid, "to IBM Watson")
    3 success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
    on_publish=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:

```
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/AZIZ MRK/OneDrive/Desktop/new python code.py =====
2022-11-17 12:31:12,097 ibmiotf.device.Client INFO Connected successfully: d:Spy6q9:Weather_now:Weather1234
Published Temperature = 100 C Humidity = 61 % to IBM Watson
Published Temperature = 92 C Humidity = 70 % to IBM Watson
Published Temperature = 98 C Humidity = 79 % to IBM Watson
Published Temperature = 99 C Humidity = 80 % to IBM Watson
Published Temperature = 90 C Humidity = 60 % to IBM Watson
Published Temperature = 95 C Humidity = 70 % to IBM Watson
Published Temperature = 93 C Humidity = 84 % to IBM Watson
Published Temperature = 91 C Humidity = 94 % to IBM Watson
Published Temperature = 101 C Humidity = 94 % to IBM Watson
Published Temperature = 109 C Humidity = 61 % to IBM Watson
Published Temperature = 100 C Humidity = 77 % to IBM Watson
Published Temperature = 108 C Humidity = 69 % to IBM Watson
Published Temperature = 102 C Humidity = 63 % to IBM Watson
Published Temperature = 95 C Humidity = 75 % to IBM Watson
Published Temperature = 97 C Humidity = 90 % to IBM Watson
Published Temperature = 104 C Humidity = 84 % to IBM Watson
Published Temperature = 93 C Humidity = 100 % to IBM Watson
Published Temperature = 98 C Humidity = 86 % to IBM Watson
Published Temperature = 95 C Humidity = 100 % to IBM Watson
Published Temperature = 97 C Humidity = 74 % to IBM Watson
Published Temperature = 107 C Humidity = 73 % to IBM Watson
Published Temperature = 91 C Humidity = 84 % to IBM Watson
Published Temperature = 110 C Humidity = 64 % to IBM Watson
Published Temperature = 92 C Humidity = 96 % to IBM Watson
Published Temperature = 92 C Humidity = 99 % to IBM Watson
Published Temperature = 108 C Humidity = 72 % to IBM Watson
Published Temperature = 100 C Humidity = 69 % to IBM Watson
Published Temperature = 93 C Humidity = 61 % to IBM Watson
Published Temperature = 105 C Humidity = 69 % to IBM Watson
Published Temperature = 96 C Humidity = 63 % to IBM Watson
Published Temperature = 92 C Humidity = 69 % to IBM Watson
Published Temperature = 103 C Humidity = 89 % to IBM Watson
Published Temperature = 97 C Humidity = 97 % to IBM Watson
Ln: 51 Col: 4
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