GAS LEAKAGE MONITORING ALERTING SYSTEM FOR INDUSTRIES

TITLE	GAS LEAKAGE MONITORING ALERTING SYSTEM FOR INDUSTRIES
DOMAIN NAME	INTERNET OF THINGS
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DEVELOP PYTHON CODE:
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":
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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()
```