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import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
import ibmiotf.api
import requests
import json
#Provide your IBM Watson Device Credentials
organization = "Iryrya"
deviceType = "Gas Sensor"
deviceId = "G1"
authMethod = "token"
authToken = "123456789"
NO2=0
CO2=0
CO=0
alert=0
def Alert():
    url = "https://www.fast2sms.com/dev/bulkV2"
    my data = {
           'sender_id': 'FSTSMS',
           'message': 'Alert some abnormal conditions were found in XYZ industry! Kindly
Evacuvate from the place',
           'language': 'english',
           'route': 'p',
           'numbers': '9095057479'
   headers = {
          'authorization':
'o0azwVFNHOM5B3hrRxdenyU2cfZujqSpYEX7t8LAgJPb9kliWCugDvo1n0kcY8TGHOt3dIQws
KpLbAJU',
          'Content-Type': "application/x-www-form-urlencoded",
          'Cache-Control': "no-cache"
     }
    response = requests.request("POST",
                                                 url,
                                                 data = my data,
                                                 headers = headers)
   returned msg = json.loads(response.text)
    print(returned msg['message'])
def myCommandCallback(cmd):
  print("Command received: %s" % cmd.data['command'])
```

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status=cmd.data['command']
  if status=="lighton":
    print ("led is on")
  else:
    print ("led 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:
  if(NO2<50) or (CO2<50) or (CO<50):
    #Get Sensor Data from DHT11
    NO2=NO2+1
    CO2=CO2+1
    CO=CO+1
    data = { 'NO2' : NO2 , 'CO2': CO2, 'CO' : CO}
    #print data
    def myOnPublishCallback():
       print ("Published Nitrogen di Oxide = %s %%" % NO2 ,"Carbon di oxide = %s %%" %
CO2, "Carbon monoxide = %s %%" % CO, "to IBM Watson")
    if((NO2>25) or (CO2>25) or (CO>25)) and (alert==0):
       Alert();
       time.sleep(2)
       alert=alert+1
    success = deviceCli.publishEvent("IoTSensor", "json", data, gos=0,
on publish=myOnPublishCallback)
  else:
    NO2=2;
    CO2=3;
    CO=1:
  if not success:
    print("Not connected to IoTF")
  time.sleep(2)
deviceCli.disconnect()
```