import time

import sys

import ibmiotf.application

import ibmiotf.device

import random

import requests, json

api\_key = "Your\_API\_Key"

# base\_url variable to store url

base\_url = "http://api.openweathermap.org/data/2.5/weather?"

organization = "33lnun"

deviceType = "PNT2022TMID47485"

deviceId = "PNT2022TMID47485"

authMethod = "token"

authToken = "BGM(9-Tgfy&lrHmglp"

#Intialize GPIO

def myCommandCallback(cmd):

 print("Command received: %s % cmd.data['command']")

 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,"authmethod":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

 city\_name = "chennai"

 complete\_url = base\_url + "appid=" + api\_key + "&q=" + city\_name

 response = requests.get(complete\_url)

 x = response.json()

 if x["cod"] != "404":

    y = x["main"]

    current\_temperature = y["temp"]

    current\_pressure = y["pressure"]

    current\_humidity = y["humidity"]

    z = x["weather"]

    weather\_description = z[0]["description"]

    print(" Temperature (in kelvin unit) = " +

    str(current\_temperature) +

    "\n atmospheric pressure (in hPa unit) = " +

    str(current\_pressure) +

    "\n humidity (in percentage) = " +

    str(current\_humidity) +

    "\n description = " +

    str(weather\_description))

else:

    print(" City Not Found ")

 data = {'temperature'=temp, 'humidity'=humid,'visibility'=visi}

 #print data

 def myOnPublishCallback():

 print("Published temperature=%s C" %temp,"humidity =%s")