PYTHON SCRIPT

Team ID: PNT2022TMID19628 (Batch - B6-6M2E)

```
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()
```

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```
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")
```