DEVELOP A PYTHON SCRIPT AND SUBSCRIBE TO IBM IOT PLATFORM

DEVELOP THE PYTHON CODE

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "5dzjyk"
deviceType = "IOT_GAS_LEAKAGE_MONITORING"
deviceId = "14072002"
authMethod = "token"
authToken = "1911028abcdefgh"

# Initialize GPIO

def myCommandCallback(cmd):
   print("Command received: %s" % cmd.data['command'])
   status=cmd.data['command']
   if status == "alarmon":
      print ("Alarm is on please all Evacuate Fans On")
  elif status == "alarmoff":
      print ("Alarm is off and Fans Off")
elif status == "sprinkleron":
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        print ("Sprinkler is On Evacuate Faster")
elif status == "sprinkleroff":
        print("Sprinkler is Off")
else:
        print("Please send proper command")
#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:
        #Get Sensor Data from random function
        temp=random.randint(0,120)
        Humid=random.randint(0,100)
        gas=random.randint(0,1500)
        data={'temp':temp,'Humid':Humid,'gas':gas}
        #print data
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      def myOnPublishCallback():
          print (" Published Temperature = %s C" % temp, "Humidity = %s %%" %
Humid, "Gas_Level = %s ppm" %gas, "to IBM Watson")


          success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
       if not success:
            print("\n Not connected to IoTF")
     if temp>60 :
          print("\n Fire Detected due to gas Leak ! Alarm ON! Sprinkler ON! Call
The Fire Police \n")
    elif gas>350:
          print("\n Gas is Leaking \n")
   time.sleep(10)
   deviceCli.commandCallback = myCommandCallback
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```