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import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "9anun7"
deviceType = "1911104"
deviceId = "1911104-iot"
authMethod = "token"
authToken = "12345678"
# 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
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temp=random.randint(0,120)
    Humid=random.randint(0,100)
    gas=random.randint(0,1500)
    data={'temp':temp,'Humid':Humid,'gas':gas}
    #print data
    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()
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