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import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson DeviceCredentials
organization = "cbp14d"
deviceType = "PNT2022TMID21782"
deviceId = "PNT2022TMID21782"
authMethod = "token"
authToken = "1234567890"
#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:
# 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 temp=random.randint(0,100) humid=random.randint(0,100) visi=random.randint(0,100) data = {'temperature'=temp, 'humidity'=humid,'visibility'=visi} def myOnPublishCallback(): #print data print("Published temperature=%s C" %temp,"humidity =%s %%" %humid,"visibility =%s %%" %visi,"to IBM Watson") success = deviceCli.publishEvent("IoTSensor","json", data, qos=0, on\_publish=myOnPublishCallback) print("Not connected to IoTF") time.sleep(1) deviceCli.commandCallback= myCommandCallback #Disconnect the device and application from the cloud deviceCli.disconnect()