

Develop the Python Code

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ibmiot.py - C:/Users/safri/Desktop/ibmiot.py (3.7.0)
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import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "xqn2dp"
deviceType = "weatherdevice"
deviceId = "ibm-weather"
authMethod = "token"
authToken = "k61(pRUZgZWf_+MRzJ"

# Initialize GPIO
temp=random.randint(0,100)
pulse=random.randint(0,100)
oxygen= random.randint(0,100)
lat = 17
lon = 18

def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['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()
```

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while True:
    #Get Sensor Data from DHT11

    temp=random.randint(0,100)
    pulse=random.randint(0,100)
    oxygen= random.randint(0,100)
    lat = 17
    lon = 18

    data = {"d":{"temp": temp, 'pulse': pulse, 'oxygen': oxygen, "lat":lat, "lon":lon}}
    #print data
    def myOnPublishCallback():
        print ("Published Temperature = %s C" % temp, "Humidity = %s %" % pulse, "to IBM Watson")

    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoT")
        time.sleep(1)

    deviceCli.commandCallback = myCommandCallback

# Disconnect the device and application from the cloud
deviceCli.disconnect()
```



