

IBM IOT PUBLISH PYTHON

```
import time

import sys

import ibmiotf.application
import ibmiotf.device

import random


#Provide your IBM Watson Device Credentials

organization = "s8ov1q"

deviceType = "abcd"

deviceId = "12345"

authMethod = "token"

authToken = "12345678"


# Initialize GPIO

def myCommandCallback(cmd):

    print("Command received: %s" % cmd.data['command'])

    status=cmd.data['command']

    if status=="lighton":

        print ("led is on")

    elif status == "lightoff":

        print ("led is off")

    else :

        print ("please send proper command")


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 DHT11

    temp=random.randint(90,110)
    Humid=random.randint(60,100)

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

    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
    if not success:
        print("Not connected to IoT")
        time.sleep(10)

    deviceCli.commandCallback = myCommandCallback

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

```

IBM Watson IoT Platform gayathri19m2001@gmail.com ID: s8ov1q

Browse Action Device Types Interfaces Add Device +

Search by Device ID Device Simulator

Device ID	Status	Device Type	Class ID	Date Added
12345	Connected	abcd	Device	Nov 15, 2022 11:38 AM

Identity Device Information Recent Events State Logs

Device ID: 12345
 Device Type: abcd
 Date Added: Nov 15, 2022 11:38 AM
 Added By: gayathri19m2001@gmail.com
 Connection Status: Connected
 Connection Time: Nov 15, 2022 12:18 PM
 Client Address: 113.30.176.66 SecureToken

ibmcloud.py - C:/Users/HP/Desktop/ibmcloud.py (3.7.0)

File Edit Format Run Options Window Help

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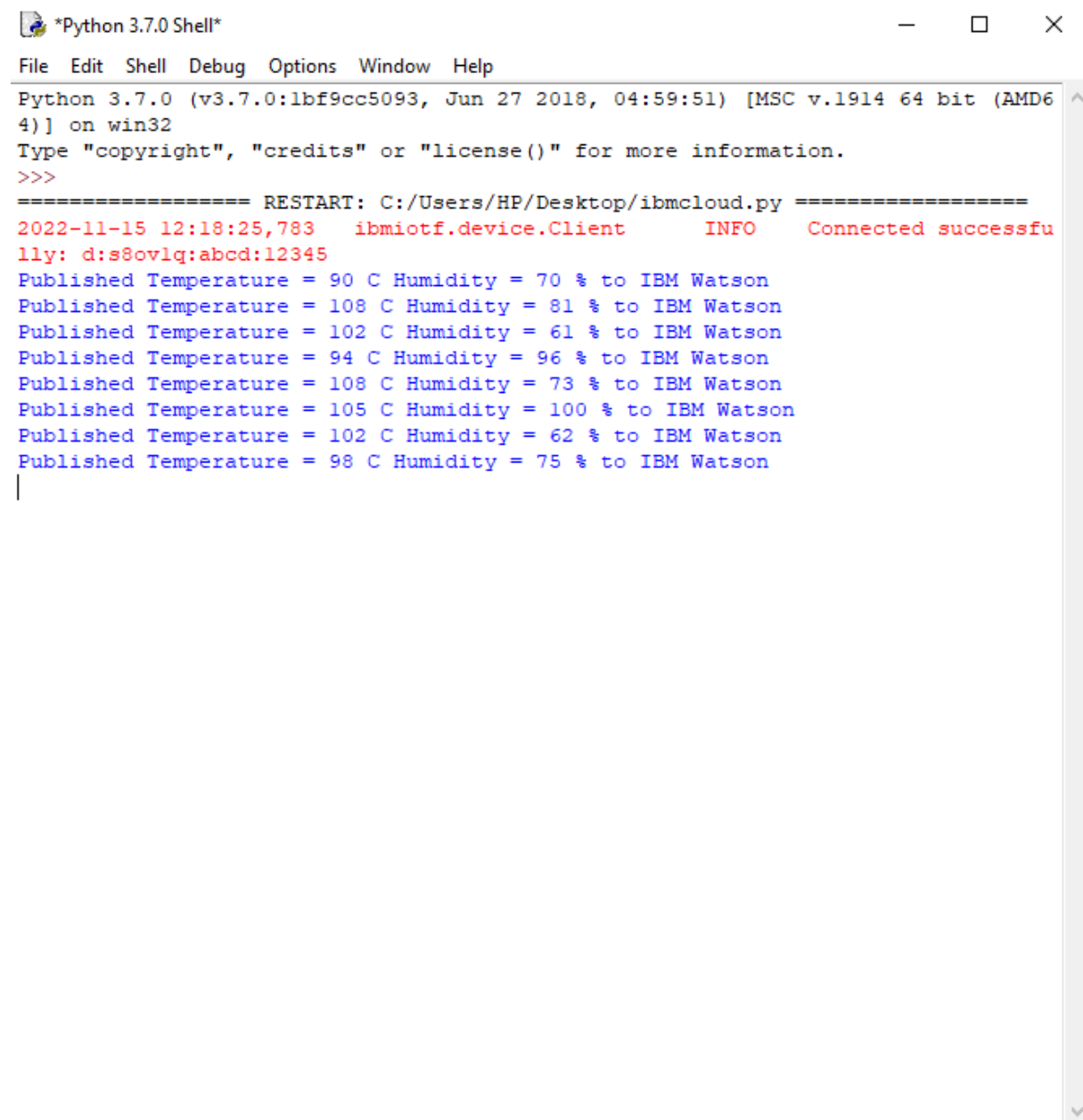
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# Connect and send a datapoint "hello" with value "world" into the cloud as an e
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while True:
    #Get Sensor Data from DHT11
```

OUTPUT

A screenshot of a Python 3.7.0 Shell window. The window title is '*Python 3.7.0 Shell*'. The menu bar includes 'File', 'Edit', 'Shell', 'Debug', 'Options', 'Window', and 'Help'. The text area shows the following output:

```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/HP/Desktop/ibmcloud.py =====
2022-11-15 12:18:25,783  ibmiotf.device.Client      INFO      Connected successfully: d:s8ovlq:abcd:12345
Published Temperature = 90 C Humidity = 70 % to IBM Watson
Published Temperature = 108 C Humidity = 81 % to IBM Watson
Published Temperature = 102 C Humidity = 61 % to IBM Watson
Published Temperature = 94 C Humidity = 96 % to IBM Watson
Published Temperature = 108 C Humidity = 73 % to IBM Watson
Published Temperature = 105 C Humidity = 100 % to IBM Watson
Published Temperature = 102 C Humidity = 62 % to IBM Watson
Published Temperature = 98 C Humidity = 75 % to IBM Watson
|
```