Publish Data To The IBM Cloud

DATE	14 NOV 2022
TEAM ID	PNT2022TMID48690
PROJECT NAME	Hazardous Area Monitoring for Industrial Plant Powered by IOT

Step 1:

Python code

IBM project.py - C:\Users\dives\AppData\Local\Programs\Python\Python37\IBM project.py (3.7.0)

File Edit Format Run Options Window Help

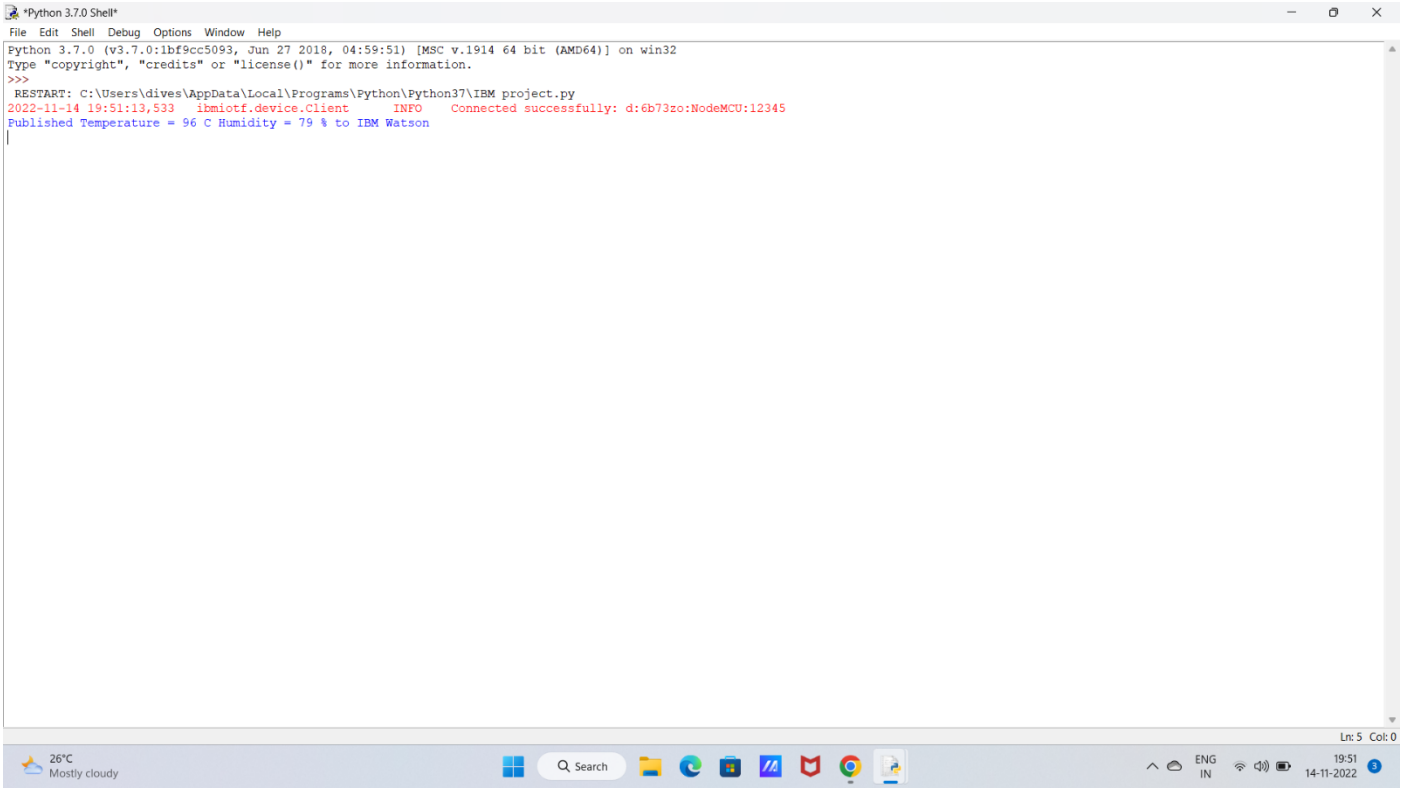
```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "6b73zo"
deviceType = "NodeMCU"
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")
```

Ln: 1 Col: 0

26°C Mostly cloudy Search ENG IN 19:50 14-11-2022

Step 2:

Run python code.


Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
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\dives\AppData\Local\Programs\Python\Python37\IBM project.py
2022-11-14 19:51:13,533 ibmiotf.device.Client INFO Connected successfully: d:6b73zo:NodeMCU:12345
Published Temperature = 96 C Humidity = 79 % to IBM Watson
Ln: 5 Col: 0
26°C
Mostly cloudy
Search
ENG
IN
19:51
14-11-2022