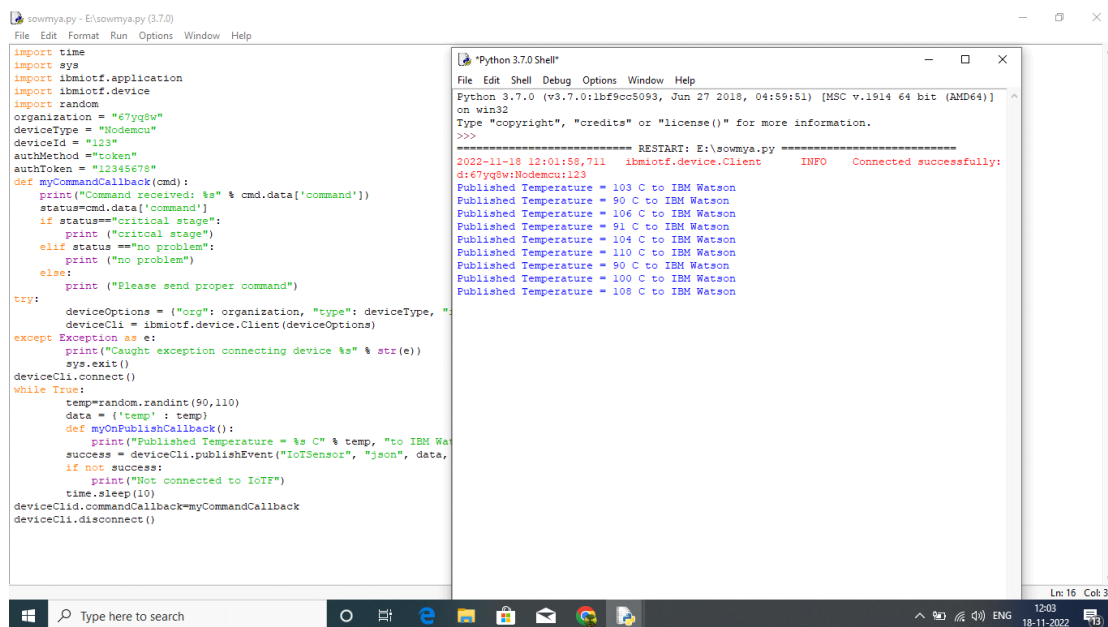


PUBLISH THE DATA TO IBM CLOUD

Date	14 November 2022
Team ID	PNT2022TMID13542
Project Name	Hazardous area monitoring for industrial power plant by IoT
Maximum Marks	4 Marks

Python code:



```
sowmya.py - E:\sowmya.py (3.7.0)
File Edit Format Run Options Window Help

import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
organization = "67yg8w"
deviceType = "Nodemcu"
deviceId = "123"
authMethod = "token"
authToken = "12345678"
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="critical stage":
        print("critical stage")
    elif status=="no problem":
        print("no problem")
    else:
        print("Please send proper command")
try:
    deviceOptions = {"org": organization, "type": deviceType, "id": deviceId, "authMethod": authMethod, "authToken": authToken}
    deviceCli = ibmiotf.device.Client(deviceOptions)
except Exception as e:
    print("Caught exception connecting device %s" % str(e))
    sys.exit()
deviceCli.connect()
while True:
    temp=random.randint(90,110)
    data = {'temp': temp}
    def myOnPublishCallback():
        print("Published Temperature = %s C" % temp, "to IBM Watson")
    success = deviceCli.publishEvent("IoTSensor", "json", data, myOnPublishCallback)
    if not success:
        print("Not connected to IoT")
    time.sleep(10)
deviceCli.commandCallback=myCommandCallback
deviceCli.disconnect()

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: E:\sowmya.py =====
2022-11-18 12:01:58,711 ibmiotf.device.Client INFO Connected successfully:
d:67yg8w:Nodemcu:123
Published Temperature = 103 C to IBM Watson
Published Temperature = 90 C to IBM Watson
Published Temperature = 106 C to IBM Watson
Published Temperature = 91 C to IBM Watson
Published Temperature = 104 C to IBM Watson
Published Temperature = 110 C to IBM Watson
Published Temperature = 90 C to IBM Watson
Published Temperature = 100 C to IBM Watson
Published Temperature = 108 C to IBM Watson
```

IBM Watson Connection :

Welcome to Project Delight...IBMIBM-Project-8377-16589167WhatsAppIBM Watson IoT Platform

67yq8w.internetofthings.ibmcloud.com/dashboard/devices/browse

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IBM Watson IoT Platformvkrampaveenap65@gmail.comID: 67yq8w

Browse

Action

Device Types

Interfaces

Add Device

Device ID	Status	Device Type	Class ID	Date Added
123	Disconnected	Nodemcu	Device	13 Nov 2022 12:23 PM

Identity

Device Information

Recent Events

State

Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
eventflow	{"temperature":98}	json	a few seconds ago
eventflow	{"temperature":90}	json	a few seconds ago
eventflow	{"temperature":92}	json	a few seconds ago
eventflow	{"temperature":96}		
eventflow	{"temperature":94}		

1 Simulation running

WhatsApp image...jpeg

WhatsApp image...jpeg

WhatsApp image...jpeg

WhatsApp image...jpeg

WhatsApp image...jpeg

Show all

Type here to search

12:3813-11-2022