

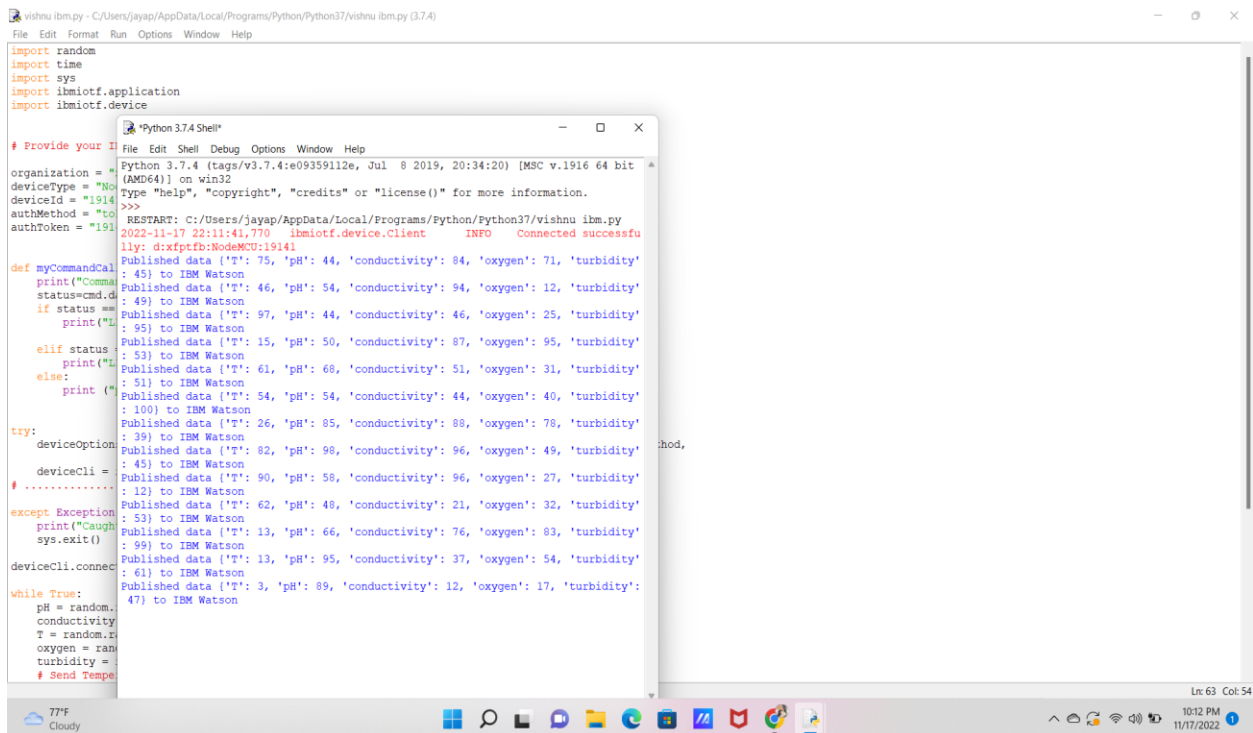
PUBLISH DATA TO THE IBM CLOUD

Team ID : PNT2022TMID06942

Project Name : Real time river water quality monitoring and Control System

Team Members:

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The screenshot shows a Python 3.7.4 Shell window with a script that publishes simulated water quality data to IBM Watson IoT. The script uses the `ibmiotf` library and a `deviceClient` to send data points. The data points include temperature (T), pH, conductivity, oxygen, and turbidity. The script is running in a loop, publishing data every 10 seconds. The output shows the data being published to the IBM Watson IoT cloud.

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

# Provide your IBM Watson IoT organization, device type, device ID, and auth token
organization = "..."
deviceType = "No..."
deviceId = "1914..."
authMethod = "to..."
authToken = "191..."

def myCommandCal...
    print("Comma...")
    status=cmd.d...
    if status ==...
        print("L...")
        : 95) to IBM Watson
    elif status...
        print("L...")
        : 53) to IBM Watson
    else:
        print("L...")
        : 51) to IBM Watson
    Published data ('T': 54, 'pH': 54, 'conductivity': 44, 'oxygen': 40, 'turbidity': 100) to IBM Watson
    Published data ('T': 26, 'pH': 85, 'conductivity': 88, 'oxygen': 78, 'turbidity': 39) to IBM Watson
    Published data ('T': 82, 'pH': 98, 'conductivity': 96, 'oxygen': 49, 'turbidity': 45) to IBM Watson
    Published data ('T': 90, 'pH': 58, 'conductivity': 96, 'oxygen': 27, 'turbidity': 12) to IBM Watson
    Published data ('T': 62, 'pH': 48, 'conductivity': 21, 'oxygen': 32, 'turbidity': 53) to IBM Watson
    Published data ('T': 13, 'pH': 66, 'conductivity': 76, 'oxygen': 83, 'turbidity': 99) to IBM Watson
    Published data ('T': 13, 'pH': 95, 'conductivity': 37, 'oxygen': 54, 'turbidity': 61) to IBM Watson
    Published data ('T': 3, 'pH': 89, 'conductivity': 12, 'oxygen': 17, 'turbidity': 47) to IBM Watson

while True:
    pH = random...
    conductivity...
    T = random.r...
    oxygen = ran...
    turbidity = ...
    # Send Tempe...
```

CDCa x | Signu x | Micro x | whats x | IBM-P x | (5) Wh x | Service x | IBM Vi x | Applic x | Node x | Node x | +

← → ↻ xfpfb.internetofthings.ibmcloud.com/dashboard/devices/browse

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IBM Watson IoT Platform

Browse

Action

Device Types

Interfaces

Add Device +

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
event	{"T":13,"pH":66,"conductivity":76,"oxygen":83,"t...	json	a few seconds ago
event	{"T":62,"pH":48,"conductivity":21,"oxygen":32,"t...	json	a few seconds ago
event	{"T":90,"pH":58,"conductivity":96,"oxygen":27,"t...	json	a few seconds ago
event	{"T":82,"pH":98,"conductivity":96,"oxygen":49,"t...	json	a few seconds ago
event	{"T":26,"pH":85,"conductivity":88,"oxygen":78,"t...	json	a few seconds ago

0 Simulations running

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Show all

Type here to search

25°C Cloudy 10:12 PM 11/17/2022