Real-Time River Water Quality Monitoring and Control Systems

DEVELOP THE PYTHON SCRIPT

Develop a python script to publish random sensor data to the IBM IoT platform

Date	29/10/2022		
Team ID	PNT2022TMID52874		
Project Name	Real-Time Water Quality		
	Monitoring And Control		
	System		

Code:

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

# Provide your IBM Watson Device Credentials
organization = "f5rl2v" # repalce it with organization ID
deviceType = "weather_device" # replace it with device type
deviceId = "weather_today" # repalce with device id
authMethod = "token"
authToken = "2VcVpo)hG4rnKKIG)x" # repalce with token

def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data)
    if cmd.data['command'] == 'lighton':
        print("LIGHT ON")
    elif cmd.data['command'] == 'lightoff':
        print("LIGHT OFF")

try:
```

python output:

IBM CLOUD OUTPUT:

	Device ID	Status	Device Type		Class ID	Date Added
· 🗆	weather_today	Connected	weather_d	evice	Device	Nov 15, 2022 8:03 PM
	Identity D	evice Information	Recent Events	State	Logs	
	The recent events	listed show the live strear	m of data that is com	ing and goir	ng from this devi	ice.
	Event	Value			Format	Last Received
	event_1	{"Salinity":13,"temp":4	49,"oxygen":12,"turbi	dity":3}	json	a few seconds ago
	event_1	{"Salinity":9,"temp":25	5,"oxygen":12,"turbid	ity":31}	json	a few seconds ago
	event_1	{"Salinity":8,"temp":9,	oxygen":2,"turbidity	":4}	json	a few seconds ago
	event_1	{"Salinity":41,"temp":4	14,"oxygen":12,"turbi	dity":	json	a few seconds ago
	event_1	{"Salinity":23,"temp":3	38,"oxygen":6,"turbid	ity":46}	json	a few seconds ago