

SPRINT-2

DEVELOP THE PYTHON SCRIPT

PUBLISH DATA TO THE IBM CLOUD

TEAM ID	PNT2022TMID48248
PROJECT NAME	Real time river water quality monitoring and control system

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

# Provide your ID
organization = "ibm"
deviceType = "Water Quality"
deviceId = "1914"
authMethod = "token"
authToken = "1914"

def myCommandCallback(command, context):
    print("Command: " + command)
    status = cmd.get(command)
    if status == "success":
        print("Data Published")
    elif status == "error":
        print("Data Not Published")
    else:
        print("Data Not Published")

try:
    deviceOption = {
        "deviceType": deviceType,
        "deviceId": deviceId,
        "authMethod": authMethod,
        "authToken": authToken
    }
    deviceCli = ibmiotf.device.Client(organization, deviceOption)
    deviceCli.connect()
    while True:
        pH = random.random() * 14
        conductivity = random.random() * 1000
        oxygen = random.random() * 100
        turbidity = random.random() * 10
        data = {
            "pH": pH,
            "conductivity": conductivity,
            "oxygen": oxygen,
            "turbidity": turbidity
        }
        deviceCli.publish(data)
        time.sleep(1)
except Exception as e:
    print("Error: " + str(e))
    sys.exit(1)

```

[illegible]