

Date	03 November 2022
Team ID	PNT2022TMID30972
Project Name	Project – Real-Time River Water Quality Monitoring and Control System

## PYTHON SCRIPT

```

import time

import sys

import ibmiotf.application
import ibmiotf.device

import random


organization="3albgm"
deviceType="NodeMCU"
deviceId="1234"
authMethod="token"
authToken="12345678"


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()


deviceCli.connect()

while True:

    temp=random.randint(-20,125)

    hum=random.randint(0,100)

    data={'temperature':temp,'humidity':hum}

```

```
def myOnPublishCallback():
```

```
    print("published temperature=%d" %temp,"humidity=%d" %hum,"to ibm watson")
```

```
success=deviceCli.publishEvent("lotSensor","json",data,qos=0,on_publish=myOnPublishCallback)
```

```
    if not success:
```

```
        print("Not connected to IoT")
```

```
    time.sleep(3)
```

```
deviceCli.disconnect()
```