DEVELOP A PYTHON SCPRIT

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Project Name	Real – time River Water Quality Monitoring and Control System

PYTHON CODE

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```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "84708c"
deviceType = "abcd"
deviceId = "12345"
authMethod = "token"
authToken = "12345678"
def myCommandCallback (cmd):
    print ("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="lighton":
        print ("led is on")
    elif status == "lightoff":
        print ("led is off")
    else:
        print ("please send proper command")
try:
        deviceOptions = {"org": organization, "type": deviceType, "id": deviceId
        deviceCli= ibmiotf.device.Client (deviceOptions)


#..
except Exception as e:
        print ("Caught evention connecting devica: %s" % str(e))
        sys.exit()

deviceCli.connect()
while True:
    temp=random.randint (90,110)
    Humid=random.randint (60,100)
    data = {'temp' : temp, 'Humid': Humid }
    def myonPublishCallback():
        print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid
    success = deviceCli.publishEvent("IoTSensor", "json", data, qos=0, on_publis
    if not success:
        print("Not connected to IOTF")
        time.sleep (10)
        deviceCli.commandCallback = myCommandCallback
deviceCli.disconnect()
```

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