DEVOLOP A PYTHON SCRIPT

PROJECT TITLE	HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED BY IoT
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SOURCE CODE:

```
import
time
        import sys
        import imiotf.application
        import ibmibotf.device
        import random

        organization = “illeiar”
        deviceType = "IBM_IOT"
        deviceId = "IBM_IOT_1"
        authMethod = "token"
        authToken = "987654321"

        def myCommandCallback(cmd):
            print("Command receied: %s" %cmd.data['command'])
            status = cmd.data['command']
            if status=="lighton":
                print("led is on")
            else:
                print("led is off")


        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(0,100)
    humd=random.randint(0,100)
    data={'temp':temp, 'Humid': humd}
    def myOnPublishCallback():
        print("Published Temperature = %s C" % temp, "Humidity= %s %%" % humd,
"to IBM Watson")

    success=deviceCli.publishEvent("IoTSensor", "json", data, qos=0,
on_publish=myOnPublishCallback)
    if not success:
        print("Not Connected to IoTF")
    time.sleep(1)

    deviceCli.commandCallback=myCommandCallback

deviceCli.disconnect()
```

OUTPUT: