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Project name	Hazardous area monitoring for industrial plants by IoT

Python Script

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "slxa7t"
deviceType = "Hazard iot"
deviceId = "hazard"
authMethod = "token"
authToken = "abcd1234"
def myCommandCallback(cmd):
   print("Command received: %s" % cmd.data['command'])
       print ("led is on")
       print ("led is off")
   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))
deviceCli.connect()
while True:
       temp=random.randint(0,100)
       data = { 'temp' : temp, 'Humid': Humid }
       def myOnPublishCallback():
            print("Published Temperature = %s C" % temp, "Humidity = %s
        success = deviceCli.publishEvent("IoTSensor", "json", data,
qos=0,
   on publish=myOnPublishCallback)
        if not success:
            print("Not connected to IoTF")
       time.sleep(10)
       deviceCli.commandCallback = myCommandCallback
deviceCli.disconnect()
```