## HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANTS POWERED BY IOT

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SPRINT-2

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "lcft5g"
deviceType = "Final"
deviceId = "Hello"
authMethod = "token"
authToken = "8300113450"
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()
# Connect and send a datapoint "hello" with value "world" into the cloud as an
event of type "greeting" 10 times
deviceCli.connect()
while True:
     #Get Sensor Data from DHT11
    temp=random.randint(0,100)
     Humid=random.randint(0,100)
     Gas=random.randint(0,100)
    data = { 'temp' : temp, 'Humid': Humid,'Gas':gas }
     #print data
     def myOnPublishCallback():
       print ("Published Temperature = %s C" % temp, "Humidity = %s %%" %
Humid, "Gas Concentration = %s"%Gas"to IBM Watson")
     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
# Disconnect the device and application from the cloud
deviceCli.disconnect()
```

## **Output:**

