## HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED BY IOT

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## CODE:

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random
#Provide your IBM Watson Device Credentials
organization = "t59c74"
deviceType = "team"
deviceId = "12345"
authMethod = "token"
authToken = "12345678"
def myCommandCallback(cmd):
  print ("Command received: %s" % cmd.data['command'])
 status=cmd.data['command']
 if status== "sensoron":
    print ("sensor is on")
  elif status == "sensoroff":
    print ("sensor is off")
  else:
    print ("please send proper command")
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 evention connecting device: %s" % str(e))
   sys.exit()
deviceCli.connect()
while True:
   temp=random.randint (90,110)
   Humid=random.randint (60,100)
   Air_quality=random.randint (0,1000)
   data = {'temp': temp,'Humid': Humid,'Air_quality': Air_quality}
   def myonPublishCallback():
     print ("Published Temperature = %s C" % temp, "Humidity = %s %%" % Humid, "Air_quality = %s
 %%" % Air_quality, "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)
   device Cli. command Callback = my Command Callback \\
 deviceCli.disconnect()
```