

SPRINT-4

Team ID	PNT2022TMID34718
Project Name	Industry-Specific Intelligent Fire Management System

Providing Data to IBM cloud

CODE

```
import time
import sys
import ibmiotf.application
import ibmiotf.device
import random

#Provide your IBM Watson Device Credentials
organization = "zoieul"
deviceType = "IOT123"
deviceId = "12345"
authMethod = "token"
authToken = "123456789"

# Initialize GPIO
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,
"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(90,110)
    Humid=random.randint(90,200)
    data = { 'temp' : temp, 'Humid':Humid}
    #print data
    def myOnPublishCallback():
        print ("Published Temperature = %s C" % temp, "Humid = %s %%" %
Humid, "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()

```



X

Event	Value	Format	Last Received
IoTSensor	{"temp":98,"Flame":163,"Gas":94}	json	a few seconds ago
IoTSensor	{"temp":104,"Flame":183,"Gas":151}	json	a few seconds ago
IoTSensor	{"temp":103,"Flame":131,"Gas":158}	json	a few seconds ago
IoTSensor	{"temp":104,"Flame":174,"Gas":127}	json	a few seconds ago
IoTSensor	{"temp":109,"Flame":168,"Gas":92}	json	a few seconds ago