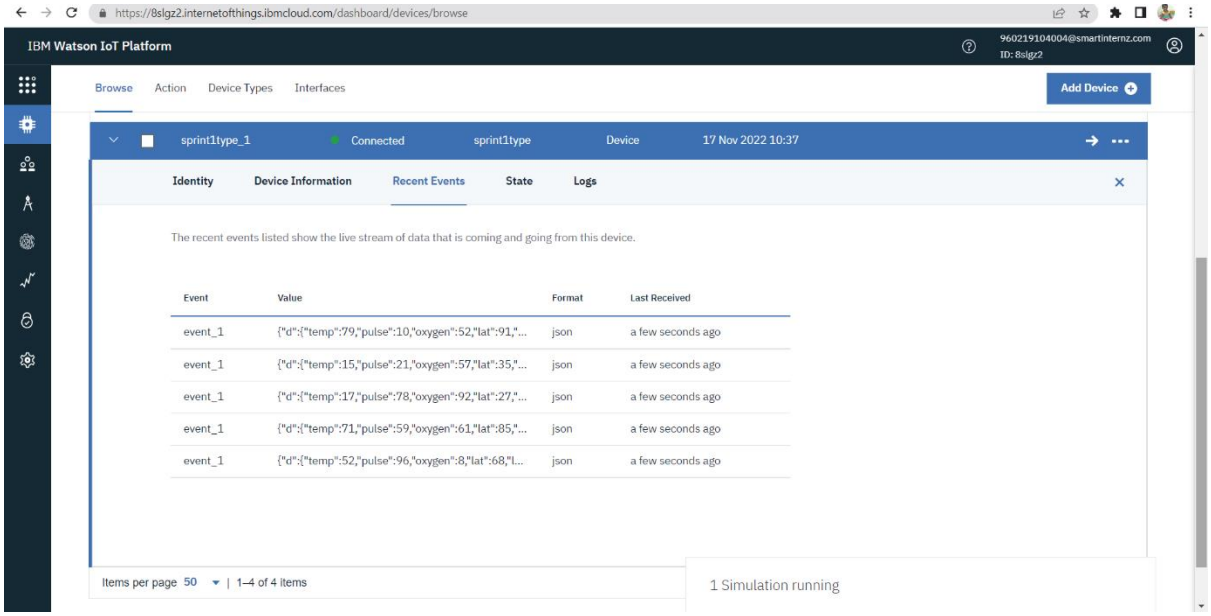
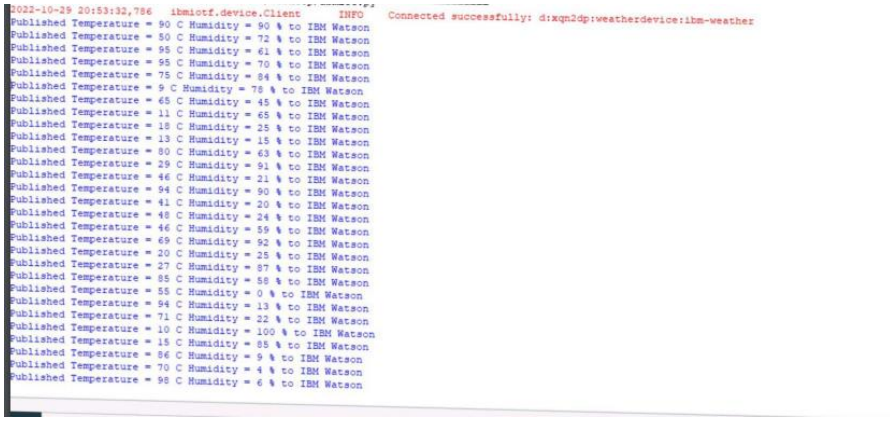
Develop a Python Script

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

organization="8slgz2"
deviceType="sprint1type"
deviceId="sprint1id"
authMethod="use-token-auth"
authToken="9876543210"

temp=random.randint(0,100)
pulse=random.randint(0,100)
oxygen=random.randint(0,100)
lat=17
lon=18

def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    print(cmd)

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)

    pulse=random.randint(0, 100)

    oxygen=random.randint(0,100)

    lat=17

    lon=18

    data={"d":{"temp":temp, "pulse": pulse, "oxygen": oxygen, "lat":lat, "lon":lon}}

    def myOnPublishCallback():

        print ("Published Temperature= %s C" % temp, "Humidity= %s %% " %pulse, "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:


https://8slgz2.internetofthings.ibmcloud.com/dashboard/devices/browse
IBM Watson IoT Platform
960219104004@smartinternz.com
ID: 8slgz2
Browse
Action
Device Types
Interfaces
Add Device
sprint1type_1
Connected
sprint1type
Device
17 Nov 2022 10:37
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
event_1
{"d":{"temp":79,"pulse":10,"oxygen":52,"lat":91,"...
json
a few seconds ago
event_1
{"d":{"temp":15,"pulse":21,"oxygen":57,"lat":35,"...
json
a few seconds ago
event_1
{"d":{"temp":17,"pulse":78,"oxygen":92,"lat":27,"...
json
a few seconds ago
event_1
{"d":{"temp":71,"pulse":59,"oxygen":61,"lat":85,"...
json
a few seconds ago
event_1
{"d":{"temp":52,"pulse":96,"oxygen":8,"lat":68,"l...
json
a few seconds ago
Items per page 50
1–4 of 4 items
1 Simulation running


2022-10-29 20:53:32,786 ibmiotf.device.Client INFO Connected successfully: d:xqn2dp:weatherdevice:ibm-weather
Published Temperature = 90 C Humidity = 90 % to IBM Watson
Published Temperature = 50 C Humidity = 72 % to IBM Watson
Published Temperature = 95 C Humidity = 61 % to IBM Watson
Published Temperature = 95 C Humidity = 70 % to IBM Watson
Published Temperature = 75 C Humidity = 84 % to IBM Watson
Published Temperature = 9 C Humidity = 78 % to IBM Watson
Published Temperature = 65 C Humidity = 45 % to IBM Watson
Published Temperature = 11 C Humidity = 65 % to IBM Watson
Published Temperature = 18 C Humidity = 25 % to IBM Watson
Published Temperature = 13 C Humidity = 15 % to IBM Watson
Published Temperature = 80 C Humidity = 63 % to IBM Watson
Published Temperature = 29 C Humidity = 91 % to IBM Watson
Published Temperature = 46 C Humidity = 21 % to IBM Watson
Published Temperature = 94 C Humidity = 90 % to IBM Watson
Published Temperature = 41 C Humidity = 20 % to IBM Watson
Published Temperature = 48 C Humidity = 24 % to IBM Watson
Published Temperature = 46 C Humidity = 59 % to IBM Watson
Published Temperature = 69 C Humidity = 92 % to IBM Watson
Published Temperature = 20 C Humidity = 25 % to IBM Watson
Published Temperature = 27 C Humidity = 87 % to IBM Watson
Published Temperature = 85 C Humidity = 56 % to IBM Watson
Published Temperature = 55 C Humidity = 0 % to IBM Watson
Published Temperature = 94 C Humidity = 13 % to IBM Watson
Published Temperature = 71 C Humidity = 22 % to IBM Watson
Published Temperature = 10 C Humidity = 100 % to IBM Watson
Published Temperature = 15 C Humidity = 85 % to IBM Watson
Published Temperature = 86 C Humidity = 9 % to IBM Watson
Published Temperature = 70 C Humidity = 4 % to IBM Watson
Published Temperature = 98 C Humidity = 6 % to IBM Watson