PYTHON CODE (GAS, TEMPERATURE, HUMIDITY, PRESSURE)

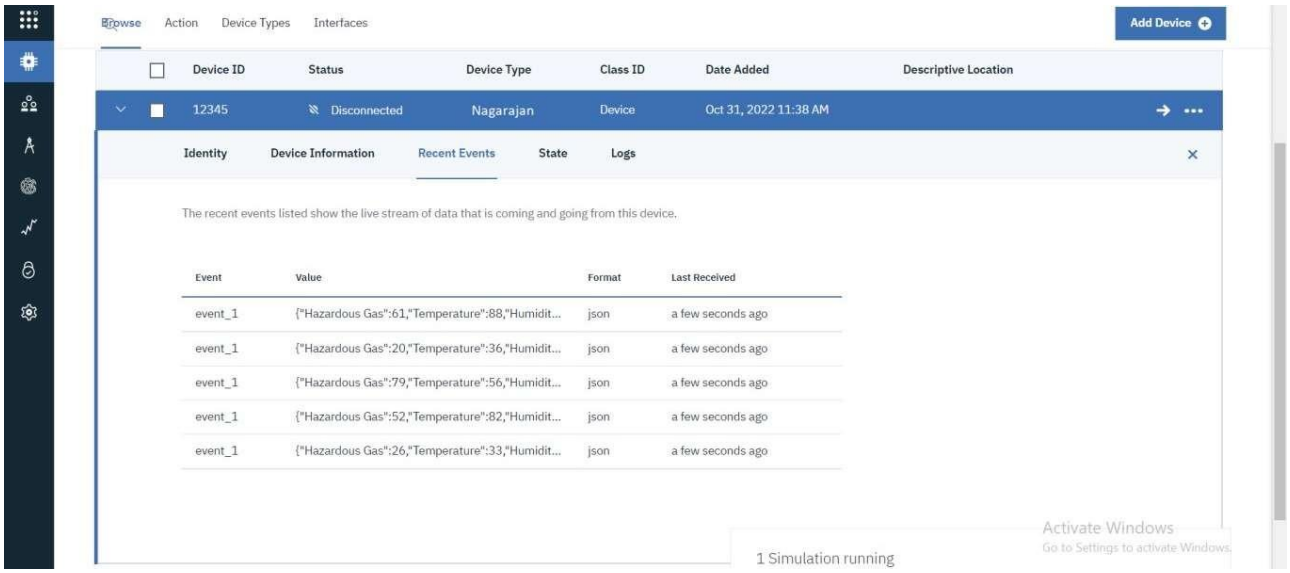
Date	18 NOVEMBER 2022
Team ID	PNT2022TMID18424
Project Name	GAS LEAKAGE MONITORING AND ALERTING SYSTEM FOR INDUSTRIES

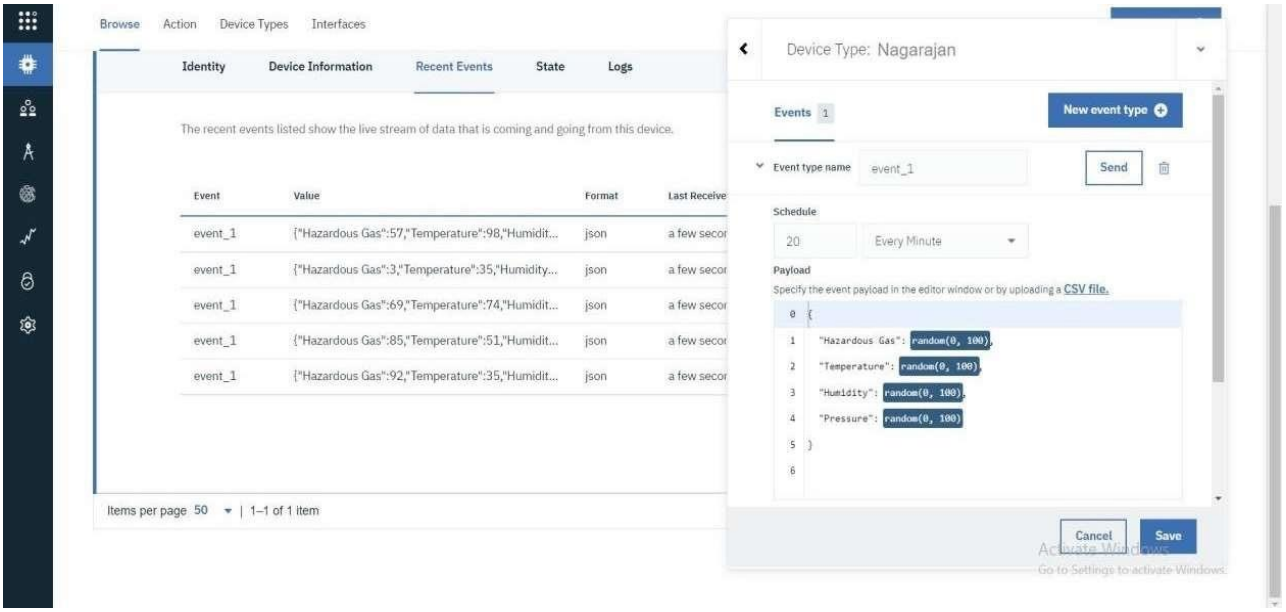
PYTHON CODE

```
#IBM Watson IOT Platform
import wiotp.sdk.device
import time
import random
myConfig = {
"identity": {
        "orgId": "yf0dyy ",
        "typeId": "Faraaz ",
        "deviceId":"12345"
},
"auth": {
        "token": "VJTDPRX@f&4Vuox8ms "
}
  }
def myCommandCallback(cmd):
print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()
```

```
while True:
    gas=random.randint(0,100)
temp=random.randint(0,100)
hum=random.randint(0,100)
pre=random.randint(0,100)
myData={'Hazardous Gas':gas, 'Temperature':temp, 'Humidity':hum,
'Pressure':pre }
client.publishEvent(eventId="status", msgFormat="json",
data=myData,qos=0, onPublish=None)
print("Published data Successfully: %s",
myData) client.commandCallback =
myCommandCallbacktime.sleep(2)
client.disconnect()
```

OUTPUT:




Browse
Action
Device Types
Interfaces
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 Receive
event_1
{"Hazardous Gas":57,"Temperature":98,"Humidit...
json
a few secor
event_1
{"Hazardous Gas":3,"Temperature":35,"Humidity...
json
a few secor
event_1
{"Hazardous Gas":69,"Temperature":74,"Humidit...
json
a few secor
event_1
{"Hazardous Gas":85,"Temperature":51,"Humidit...
json
a few secor
event_1
{"Hazardous Gas":92,"Temperature":35,"Humidit...
json
a few secor
Items per page 50
1–1 of 1 item
Device Type: Nagarajan
Events 1
New event type
Event type name
event_1
Send
Schedule
20
Every Minute
Payload
Specify the event payload in the editor window or by uploading a CSV file.
{
"Hazardous Gas": random(0, 100),
"Temperature": random(0, 100),
"Humidity": random(0, 100),
"Pressure": random(0, 100)
}
Cancel
Save
Activate Windows
Go to Settings to activate Windows.