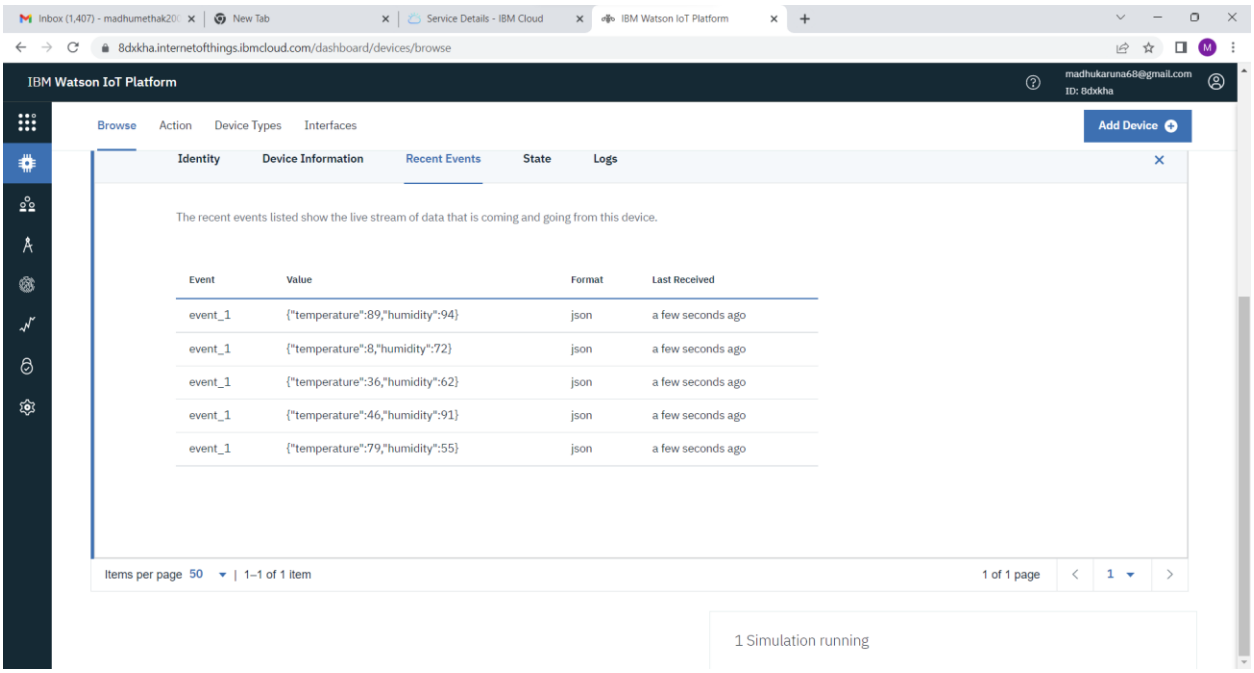
PUBLISH DATA TO IBM CLOUD

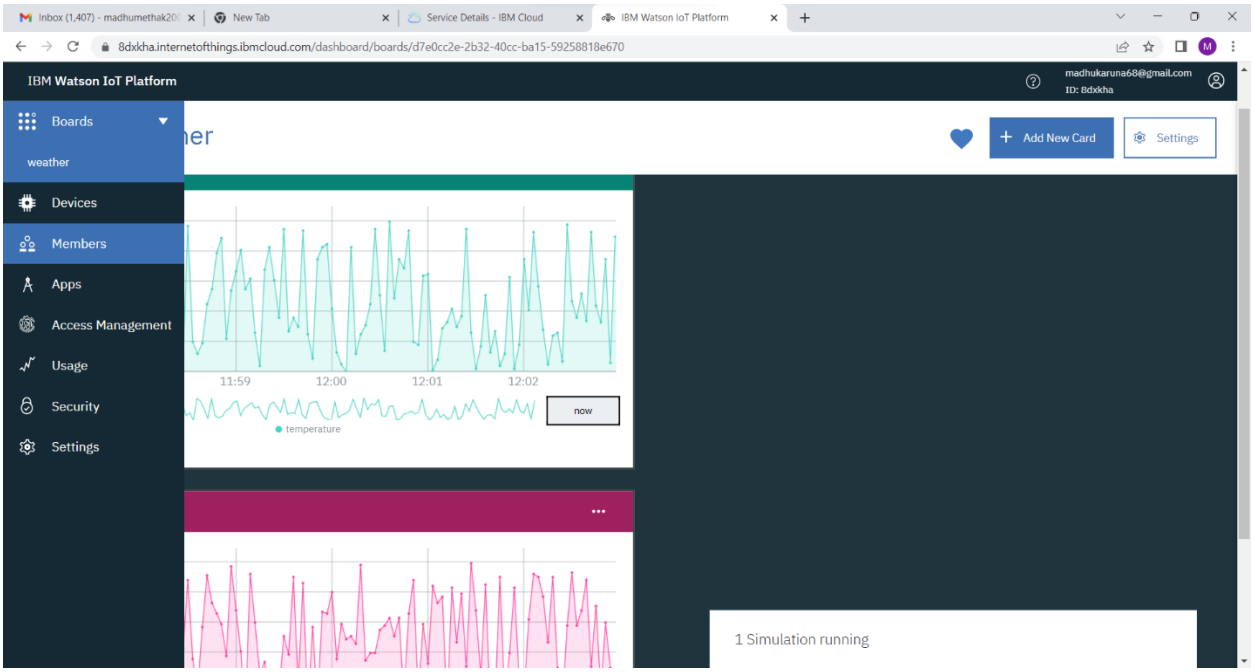
TEAMID	PNT2022TMID01063
PROJECT NAME	SIGNS WITH SMART CONNECTIVITY FOR BETTER ROAD SAFETY

PYTHON CODE:

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


#Provide your IBM Watson Device Credentials

Organization ID 8dxkha

Device Type madhu

Device ID madhu

Authentication Method use-token-auth

Authentication Token yah&46&uqf!k4Rq!n+

# Initialize GPIO

temp=60
pulse=70
oxygen= 30
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()

# 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

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

# Disconnect the device and application from the cloud
deviceCli.disconnect()
```


IBM Watson IoT Platform
madhukaruna68@gmail.com
ID: 8dxkha
Browse
Action
Device Types
Interfaces
Add Device
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
{"temperature":89,"humidity":94}
json
a few seconds ago
event_1
{"temperature":8,"humidity":72}
json
a few seconds ago
event_1
{"temperature":36,"humidity":62}
json
a few seconds ago
event_1
{"temperature":46,"humidity":91}
json
a few seconds ago
event_1
{"temperature":79,"humidity":55}
json
a few seconds ago
Items per page 50
1–1 of 1 item
1 of 1 page
1
1 Simulation running


IBM Watson IoT Platform
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ID: 8dxkha
Boards
weather
Devices
Members
Apps
Access Management
Usage
Security
Settings
Add New Card
Settings
11:59
12:00
12:01
12:02
now
temperature
1 Simulation running