SPRINT 2

Project Title	Industry-specific intelligent fire management system
Team ID	PNT2022TMID16845
Date	19 NOV 2022

Code for Simulation

```python
#IBM Watson IOT Platform

#pip install wiotp-sdk

import wiotp.sdk.device

import time

import random

myConfig = {

  "identity": {

    "orgId": "s8ov1q",

    "typeId": "abcd",

    "deviceId":"12345"

  },

  "auth": {

    "token": "12345678"

  }

}


def myCommandCallback(cmd):

  print("Message received from IBM IoT Platform: %s" %
cmd.data['command'])
```

```python
        m=cmd.data['command']


client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)

client.connect()


while True:
    temp=random.randint(-20,125)

    hum=random.randint(0,100)

    flame=random.randint(0,50)

    gas=random.randint(0,100)

    myData={'temperature':temp,    'humidity':hum,'flame':flame,'gas':gas}

    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)

    print("Published data Successfully: %s", myData)

    client.commandCallback = myCommandCallback

    time.sleep(2)
client.disconnect()
```

OUTPUT (IBM IOT Watson)

Connection Details

		Device ID	Status	Device Type	Class ID	Date Added		
∨	■	12345	● Connected	abcd	Device	Nov 15, 2022 11:38 AM	→	•••

Identity   Device Information   Recent Events   State   Logs   ✕

Device ID	12345
Device Type	abcd
Date Added	Nov 15, 2022 11:38 AM
Added By	gayathri19m2001@gmail.com
Connection Status	Connected
	Connection Time: Nov 16, 2022 10:06 PM
	Client Address: 223.181.233.93 SecureToken

IBM Watson IoT Platform

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 Received
status	["temperature":51,"humidity":2,"flame":44,"gas"...	json	a few seconds ago
status	["temperature":45,"humidity":78,"flame":2,"gas"...	json	a few seconds ago
status	["temperature":29,"humidity":41,"flame":10,"ga...	json	a few seconds ago
status	["temperature":114,"humidity":67,"flame":25,"g...	json	a few seconds ago
status	["temperature":82,"humidity":81,"flame":16,"ga...	json	a few seconds ago