SPRINT 2

Project Title	Industry-specific intelligent fire management system
Team ID	PNT2022TMID34745
Date	5 NOVEMBER 2022

Code for Simulation

```
#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

		Browse	Action	Device Types	Interfaces			Add Device ⊕

Q Search by Device ID   Device Simulator ⊙   ▯▯   ▽

		Device ID	Status	Device Type	Class ID	Date Added	
⌄	☐	3007	⊠ Disconnected	Nodered	Device	Nov 13, 2022 7:44 PM	→ ⋯

Identity	Device Information	Recent Events	State	Logs	✕

Device ID   3007
Device Type   Nodered
Date Added   Nov 13, 2022 7:44 PM
Added By   santhoshmodi30@gmail.com
Connection Status   Disconnected

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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