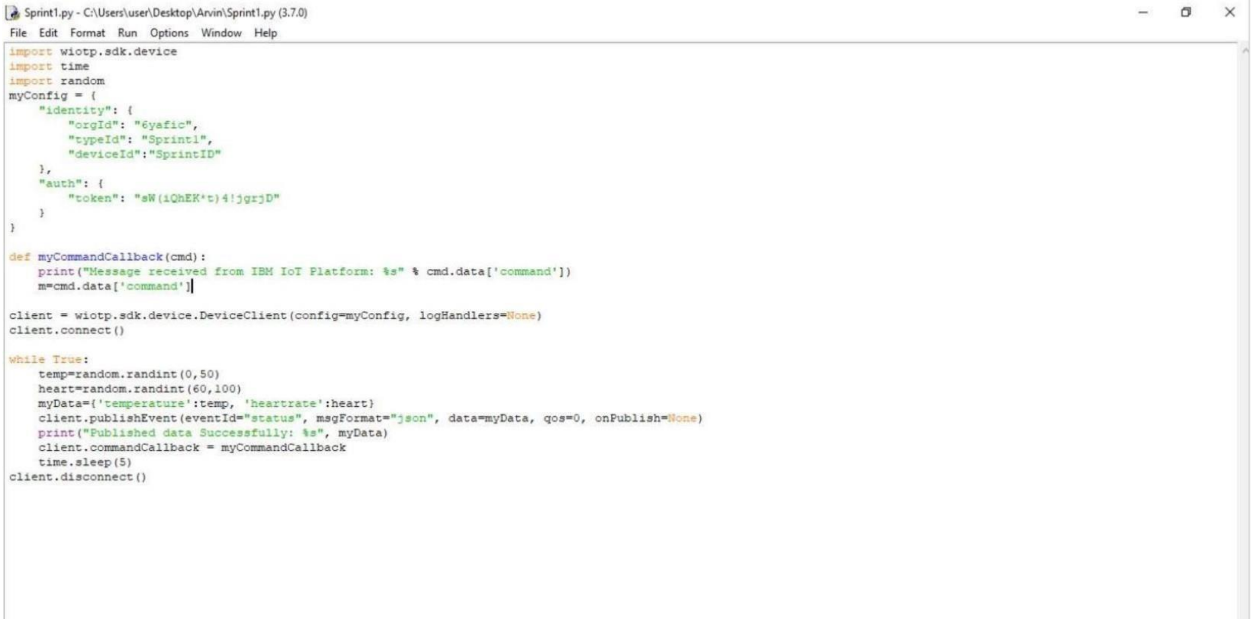
HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED BY IOT

DEVELOPE THE PYTHON SCRIPT

Team ID-PNT2022TMID14654

We are getting temperature and heart rate of worker as input through the beacon scanner (python code)

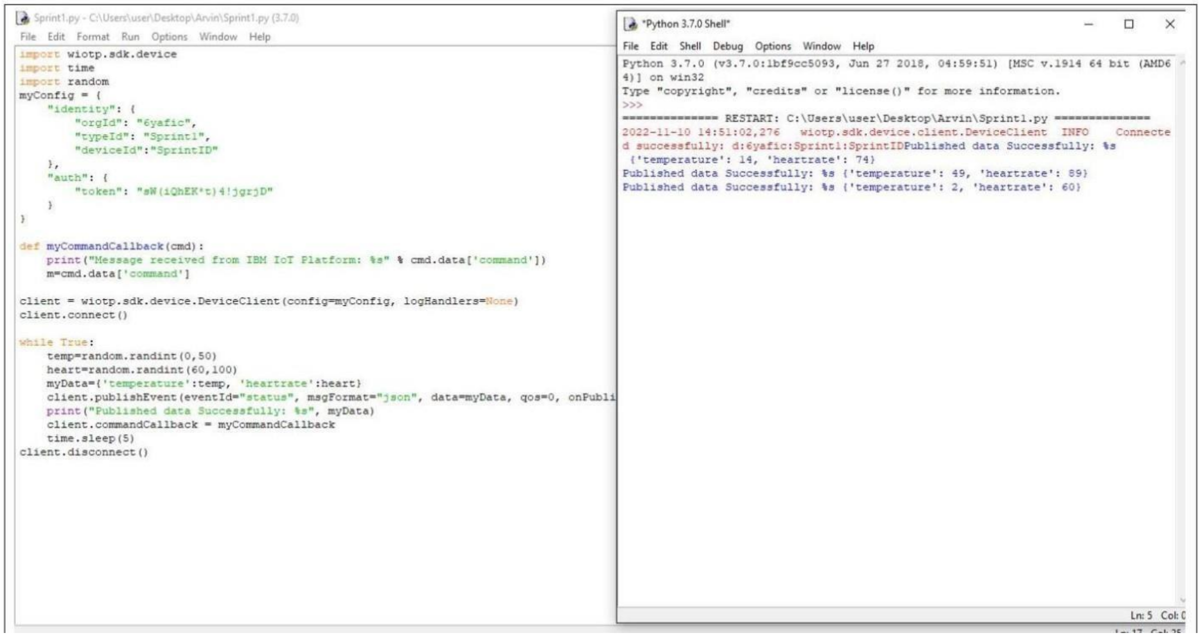

Sprint1.py - C:\Users\user\Desktop\Arvin\Sprint1.py (3.7.0)
File Edit Format Run Options Window Help

```python
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "6yafic",
        "typeId": "Sprint1",
        "deviceId":"SprintID"
    },
    "auth": {
        "token": "sW(iQhEK*t)4!jgrjD"
    }
}

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:
    temp=random.randint(0,50)
    heart=random.randint(60,100)
    myData={'temperature':temp, 'heartrate':heart}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Published data Successfully: %s", myData)
    client.commandCallback = myCommandCallback
    time.sleep(5)
client.disconnect()
```


Sprint1.py - C:\Users\user\Desktop\Arvin\Sprint1.py (3.7.0)
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Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Ln: 5 Col: 0

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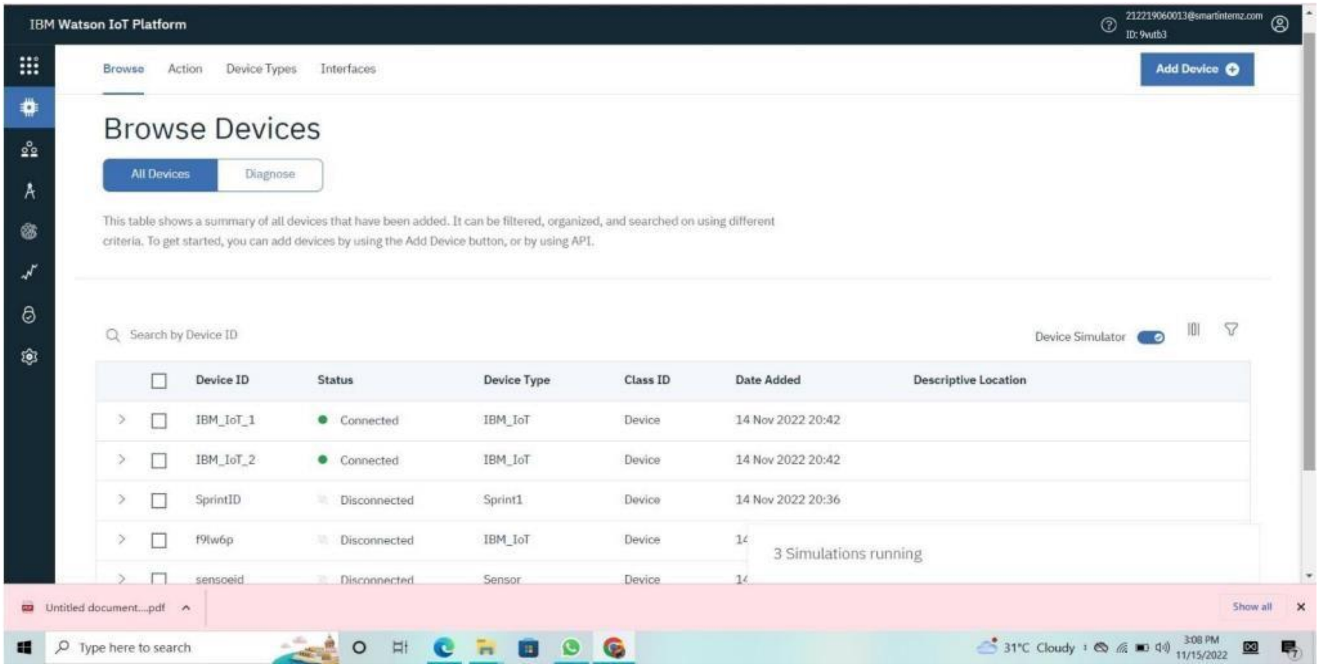
```
Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD6
4)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
============== RESTART: C:\Users\user\Desktop\Arvin\Sprint1.py ==============
2022-11-10 14:51:02,276   wiotp.sdk.device.client.DeviceClient  INFO    Connecte
d successfully: d:6yafic:Sprint1:SprintIDPublished data Successfully: %s
 {'temperature': 14, 'heartrate': 74}
Published data Successfully: %s {'temperature': 49, 'heartrate': 89}
Published data Successfully: %s {'temperature': 2, 'heartrate': 60}
```

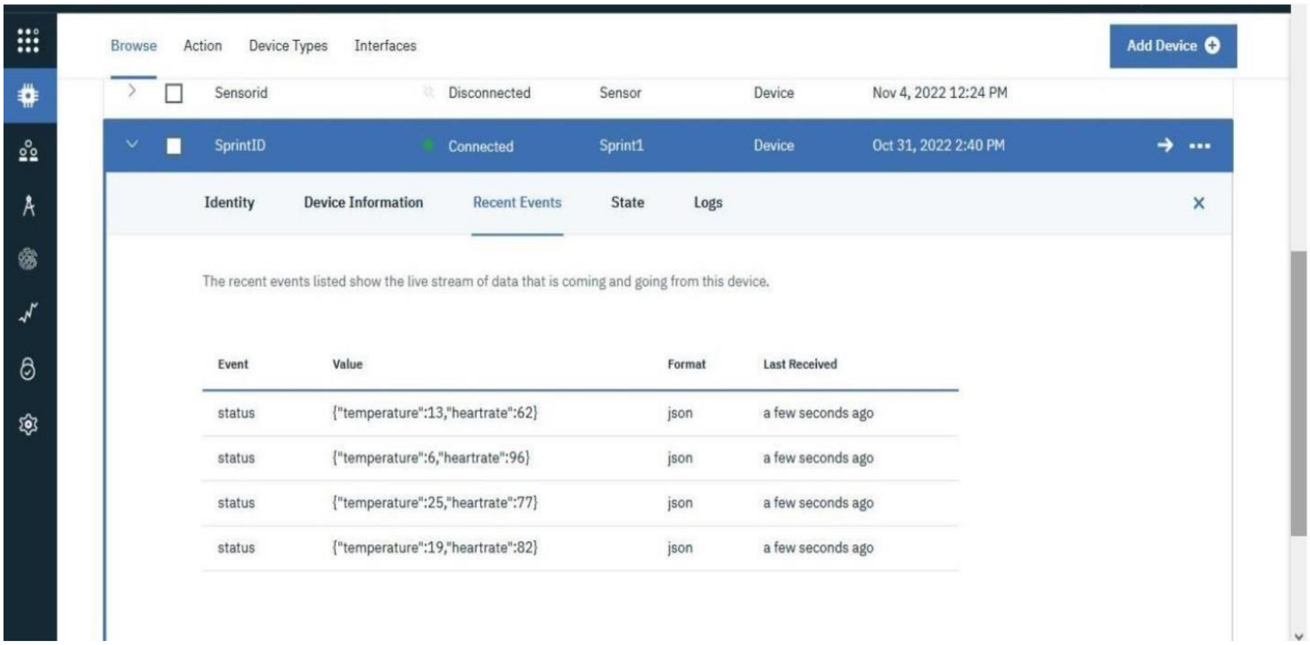
Publish Data To The IBM Cloud



Browse Devices

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

	□	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
>	□	IBM_IoT_1	● Connected	IBM_IoT	Device	14 Nov 2022 20:42	
>	□	IBM_IoT_2	● Connected	IBM_IoT	Device	14 Nov 2022 20:42	
>	□	SprintID	Disconnected	Sprint1	Device	14 Nov 2022 20:36	
>	□	f9lw6p	Disconnected	IBM_IoT	Device	14	
>	□	sensoeid	Disconnected	Sensor	Device	14	



Sensorid	Disconnected	Sensor	Device	Nov 4, 2022 12:24 PM
SprintID	Connected	Sprint1	Device	Oct 31, 2022 2:40 PM

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":13,"heartrate":62}	json	a few seconds ago
status	{"temperature":6,"heartrate":96}	json	a few seconds ago
status	{"temperature":25,"heartrate":77}	json	a few seconds ago
status	{"temperature":19,"heartrate":82}	json	a few seconds ago