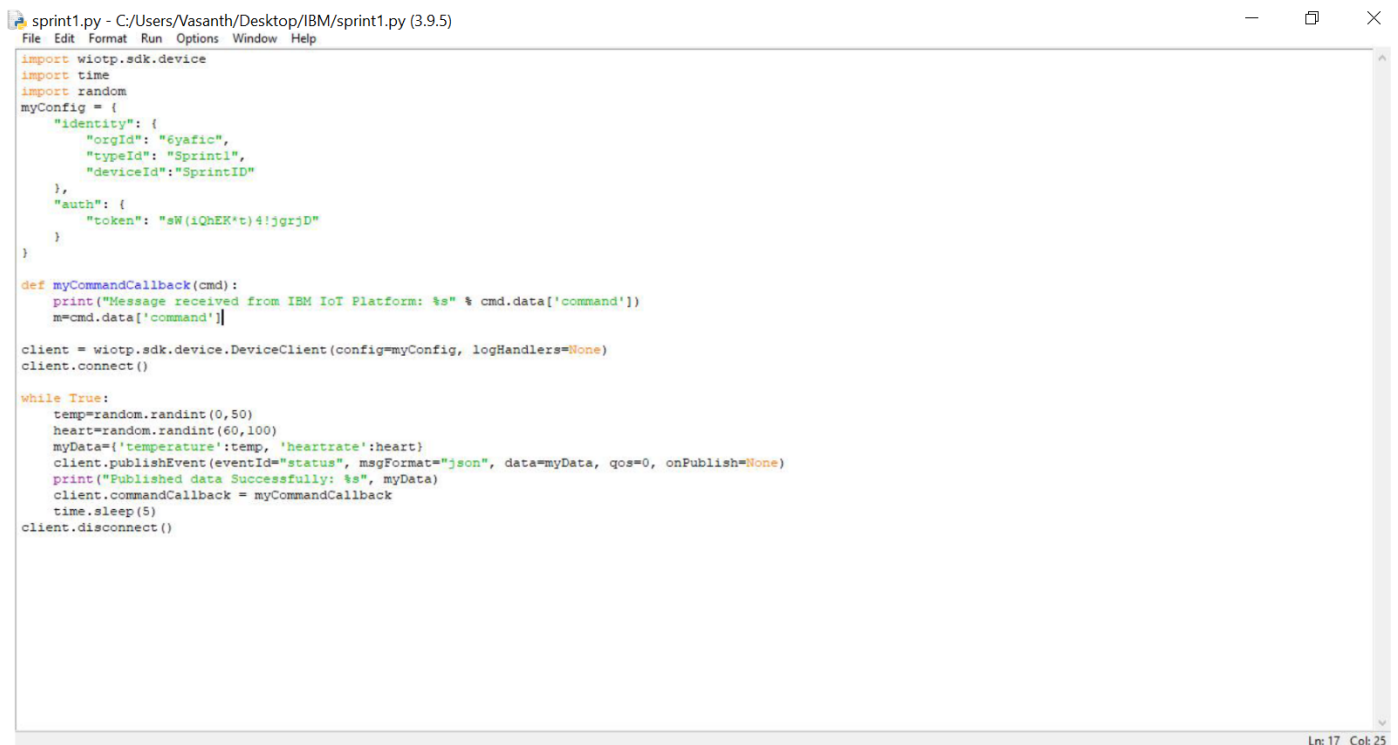


DEVELOP THE PYTHON SCRIPT

| | |
|--------------|---|
| Date | 11 November 2022 |
| Team ID | PNT2022TMID54458 |
| Project Name | Hazardous Area Monitoring for Industrial Plant powered by IoT |

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

Publishing the python script



```
sprint1.py - C:/Users/Vasanth/Desktop/IBM/sprint1.py (3.9.5)
File Edit Format Run Options Window Help

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()
```

Ln: 17 Col: 25

sprint1.py - C:/Users/Vasanth/Desktop/IBM/sprint1.py (3.9.5)

```
File Edit Format Run Options Window Help
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "6yafic",
        "typeId": "Sprint1",
        "deviceId": "SprintID"
    },
    "auth": {
        "token": "sW(1QhEK't)4!jgrJD"
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    client.commandCallback = myCommandCallback
    time.sleep(5)
client.disconnect()
```

IDLE Shell 3.9.5

File Edit Shell Debug Options Window Help

```
Python 3.9.5 (tags/v3.9.5:0a7dcbbd, May 3 2021, 17:27:52) [M
SC v.1928 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more
information.
>>>
===== RESTART: C:/Users/Vasanth/Desktop/IBM/sprint1.py =====
2022-11-10 14:51:00.276 wiotp.sdk.device.client.DeviceClient INFO Connecte
d successfully: d6yafic: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})
```

Ln: 5 Col: 4

Ln: 17 Col: 25

Inbox (3,34) Service Del... IBM Watson IBM Watson internetof IBM IBM IBM IBM-Project +

https://eqtt5i.internetofthings.ibmcloud.com/dashboard/boards/browse

IBM Watson IoT Platform

vasanthmudhanai@gmail.com

ID: eqtt5i

Browse Action Device Types Interfaces

Add Device +

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