


Team ID :
PNT2022TMID11820

DEVELOP THE PYTHON SCRIPT

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

Publishing the python script



```
Sprint1.py - C:\Users\user\Desktop\Arvin\Sprint1.py (3.7.0)
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

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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

```
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}
```

Ln: 5 Col: 0

Ln: 17 Col: 25

Service Details - IBM Cloud

IBM Watson IoT Platform

https://6yafic.internetofthings.ibmcloud.com/dashboard/devices/browse

Getting Started Inbox - arvinraj.p... IBM Cloud Account Home - Canva MIT App Inventor Classrooms | Tinkercad Untitled mural • Know... Customer Problem Sta...

IBM Watson IoT Platform 2k19ece005@klot.ac.in ID: 6yafic

Browse Action Device Types Interfaces

Add Device

Search by Device ID Device Simulator

Device ID	Status	Device Type	Class ID	Date Added
Arvin	Disconnected	Assignment4	Device	Oct 31, 2022 10:34 AM
ArvinID	Disconnected	Assignment-4	Device	Oct 31, 2022 11:35 AM
PNT2022TMID30240	Disconnected	Monitoringarea	Device	Oct 30, 2022 2:17 PM
Sensorid	Disconnected	Sensor	Device	Nov 4, 2022 12:24 PM
SprintID	Connected	Sprint1	Device	Oct 31, 2022 2:40 PM

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The screenshot displays the IBM Watson IoT Platform interface. At the top, the browser address bar shows the URL: <https://6yafic.internetofthings.ibmcloud.com/dashboard/devices/browse>. The page header includes the title "IBM Watson IoT Platform" and a user profile for "2k19ece005@kiot.ac.in" with ID "6yafic".

The main content area is titled "Browse" and lists devices. Two devices are visible:

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

The **SprintID** device is selected, and its details are shown in a modal window. The modal has tabs for Identity, Device Information, Recent Events, State, and Logs. The **Recent Events** tab is active, displaying a message: "The recent events listed show the live stream of data that is coming and going from this device."

Below the message is a table of recent events:

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