

## SPRINT-1

TEAM ID-PNT2022TMID08158

### DEVELOP THE PYTHON CODE

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "owxp6u",
        "typeId": "ESP-32",
        "deviceId": "DHT-22"
    },
    "auth": {
        "token": "harini@2001"
    }
}
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:
    latitude=random.uniform(27.2046,125.25)
    longitude=random.uniform(77.4977,100.1526)
    binlevel=random.randint(10,100)
    if binlevel >= 90:
        myData={'latitude':latitude,'longitude':longitude,'binlevel':binlevel}
        client.publishEvent(eventId="status",msgFormat="json", data=myData, qos=0,
            onPublish=None)
        ##print("Published data Successfully: %s", myData)
        print("BIN IS FULL!!!!",myData)
        client.commandCallback=myCommandCallback
        time.sleep(2)
    else:
        print("BIN IS IN NORMAL LEVEL")
        time.sleep(2)
client.disconnect()
```

```
*IDLE Shell 3.9.6*
File Edit Shell Debug Options Window Help
=====
2022-11-15 17:19:32,522 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:o
wpx6u:ESP-32:DHT-22
BIN IS IN NORMAL LEVEL
BIN IS IN NORMAL LEVEL
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BIN IS IN NORMAL LEVEL
BIN IS FULL!!!! {'latitude': 63.48914185871028, 'longitude': 83.62608613156462, 'binlevel': 92}
BIN IS IN NORMAL LEVEL
BIN IS IN NORMAL LEVEL
BIN IS IN NORMAL LEVEL
BIN IS IN NORMAL LEVEL
BIN IS IN NORMAL LEVEL
BIN IS FULL!!!! {'latitude': 31.8898527518414, 'longitude': 90.91239047399074, 'binlevel': 90}
BIN IS IN NORMAL LEVEL
BIN IS FULL!!!! {'latitude': 69.78123705960724, 'longitude': 82.70524266251023, 'binlevel': 95}
Ln: 5 Col: 0
```

IBM Watson IoT Platform

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ID: owxp6u

Browse

Action

Device Types

Interfaces

Add Device

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
status	{"latitude":74.16264169388356,"longitude":98....	json	a few seconds ago
status	{"latitude":86.07545043038073,"longitude":93....	json	a few seconds ago
status	{"latitude":101.54781729083102,"longitude":9...	json	a few seconds ago
status	{"latitude":87.71388299215297,"longitude":86....	json	a minute ago
status	{"latitude":120.97951841275123,"longitude":8...	json	a minute ago

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0 Simulations running