

## PYTHON SCRIPT TO PUBLISH DATA TO IBM CLOUD

Date	12 SEPTEMBER 2022
Team ID	PNT2022TMID41897
Project Name	<b>Project</b> -Smart Waste Management System in Metropolitan Cities.
Maximum Marks	8 Marks

### PYTHON CODE:

```
import wiotp.sdk.device
import time
import json
myConfig = {
    "identity": {
        "orgId": "1086aa",
        "typeId": "scriptpy",
        "deviceId": "12345"
    },
    "auth": {
        "token": "123456789"
    }
}
```

```
client = wiotp.sdk.device.DeviceClient(config=myConfig,
logHandlers=None)
client.connect()
```

```
while True:
    name="smartbridge"
    latitude=17.4225176
    longitude=70.5450042
    myData={'name': 'name', 'lat': latitude, 'lon': longitude}
    client.publishEvent(eventId="status", msgFormat="json",
data=myData, qos=0, onPublish=None)
    print ("Published data to IBM iot platform: %s", myData)
```

time.sleep (5)

```
client.disconnect ()
```

### PYTHON OUTPUT:

```
long.py - C:\Users\nandh\Documents\ibmpython\long.py (3.6.5)
File Edit Format Run Options Window Help

import wiotsdk.device
import time
import json
myConfig = {
    "identity": {
        "orgId": "1086aa",
        "typeId": "scriptpy",
        "deviceId": "12345"
    },
    "auth": {
        "token": "123456789"
    }
}

client = wiotsdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()

while True:
    name="smartbridge"
    latitude=17.4225176
    longitude=70.5450042
    myData={'name': 'name', 'lat': latitude, 'lon': longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, on
print ("Published data to IBM iot platform: %s", myData)
time.sleep(5)

client.disconnect ()
```

# PUBLISH DATA TO IBM CLOUD OUTPUT

The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes the IBM logo and several open tabs: IBM, IBM-Project-11437-165932, Service Details - IBM Cloud, IBM Watson IoT Platform, and Inbox (3,578) - 6225191040. The main header shows the URL [1086aa.internetofthings.ibmcloud.com/dashboard/devices/browse](https://1086aa.internetofthings.ibmcloud.com/dashboard/devices/browse) and the user profile for 622519104005@smartinternz.com with ID: 1086aa.

The dashboard is divided into sections: Browse, Action, Device Types, and Interfaces. A sidebar on the left contains icons for various functions. The main content area is titled "Recent Events" and shows a live stream of data from a device. The events are listed in a table with columns: Event, Value, Format, and Last Received.

Event	Value	Format	Last Received
status	{"name":"name","lat":17.4225176,"lon":70.545...	json	a few seconds ago
status	{"name":"name","lat":17.4225176,"lon":70.545...	json	a few seconds ago
status	{"name":"name","lat":17.4225176,"lon":70.545...	json	a few seconds ago
status	{"name":"name","lat":17.4225176,"lon":70.545...	json	a few seconds ago
status	{"name":"name","lat":17.4225176,"lon":70.545...	json	a few seconds ago

The bottom of the screen shows a Windows taskbar with various application icons and a system tray displaying the date and time: 2:26 PM, 11/16/2022.