

Python code:-

```
import json
import wiotp.sdk.device
import time

myConfig = {
    "identity": {
        "orgId": "hj5fmy",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}

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

while True:
    name= "Smartbridge"
    #in area location

    #latitude= 17.4225176
    #longitude= 78.5458842

    #out area location

    latitude= 17.4219272
    longitude= 78.5488783
    myData={'name': name, 'lat':latitude,'lon':longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
    print("Data published to IBM IoT platfrom: ",myData)
    time.sleep(5)

client.disconnect()
```

Output for python;-

```
python 1.py - C:\Users\Muthusamy\Documents\IBM\python 1.py (3.7.0)
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import json
import wiotp.sdk.device
import time

myConfig = {
    "identity": {
        "orgId": "rchaw3",
        "typeId": "childtracker",
        "deviceId": "childtracker"
    },
    "auth": {
        "token": "9677961326"
    }
}

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

while True:
    name="childtracker"
    #in area location
    #latitude=17.4225176
    #longitude=78.5458842

    #out area location
    latitude=17.4225176
    longitude=78.5458842
    myData={'name': name, 'la': latitude, 'lo': longitude}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish:
    print("Data published to IBM IoT plpatform: ", myData)
    time.sleep(5)

client.disconnect()
```

```
Python 3.7.0 Shell
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Python 3.7.0 (v3.7.0:1bf9cc5093, Jun 27 2018, 04:59:51) [MSC v.1914 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\Muthusamy\Documents\IBM\python 1.py =====
2022-11-18 10:03:26,983 wiotp.sdk.device.client.DeviceClient INFO Connected successful
ly: dirchaw3:childtracker:childtrackerData published to IBM IoT plpatform:
{'name': 'childtracker', 'la': 17.4225176, 'lo': 78.5458842}
Data published to IBM IoT plpatform: {'name': 'childtracker', 'la': 17.4225176, 'lo': 78.54
58842}
Data published to IBM IoT plpatform: {'name': 'childtracker', 'la': 17.4225176, 'lo': 78.54
58842}
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58842}
```

Connecting IoT Watson Platform with python:-

The screenshot displays the IBM Watson IoT Platform dashboard on the left and a Python terminal window on the right. The dashboard shows a list of events for a device named 'locationtracker'. The events are as follows:

Event	Value
event_2	{"latitude":39,"longitude":58}
status	{"name":"childtracker","la":17.4225176,"lo":78.5458842}
event_2	{"latitude":-64,"longitude":142}
event_2	{"latitude":-67,"longitude":177}
status	{"name":"childtracker","la":17.4225176,"lo":78.5458842}

Below the table, it indicates '1 Simulation running'.

The Python terminal window on the right shows the execution of the script, with output messages confirming the connection and data publishing to the IBM IoT platform.