

DEVELOP A PYTHON SCRIPT

TEAM ID :PNT2022TMID52822

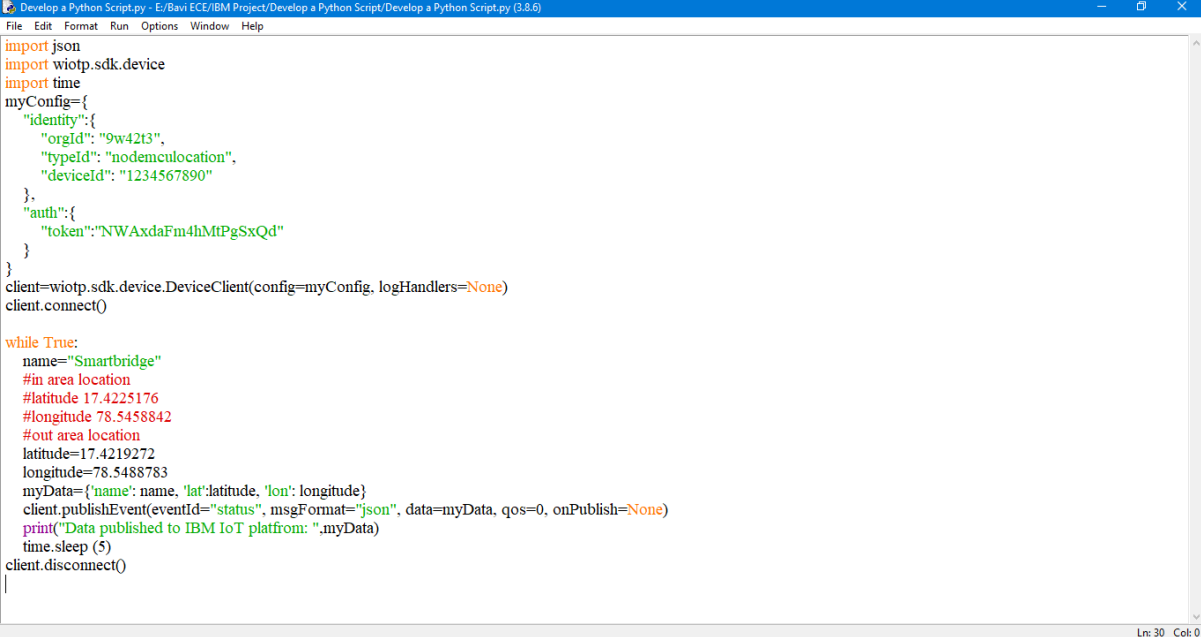
TEAM MEMBERS :

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Aim:

To develop a python code for publishing the location (latitude and longitude) data to the IBM IoT Platform.

SNIPS:



```
Develop a Python Script.py - E:/Bavi ECE/IBM Project/Develop a Python Script/Develop a Python Script.py (3.8.6)
File Edit Format Run Options Window Help

import json
import wiotp.sdk.device
import time
myConfig={
    "identity":{
        "orgId": "9w42f3",
        "typeId": "nodemculocation",
        "deviceId": "1234567890"
    },
    "auth":{
        "token":"NWAxdaFm4hMtPgSxQd"
    }
}
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 platform: ",myData)
    time.sleep(5)
client.disconnect()
|
```

IBM WATSON IoT PLATFORM:

IBM Watson IoT Platform

1904072ece@cit.edu.in
ID: 9w4213

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Device Drilldown - 1234567890

Device Credentials

Connection Information

Recent Events

State

Device Information

Metadata

Diagnostics

Connection Logs

Device Actions

Device Credentials

You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details.

Organization ID9w4213

Device Typenodemculocation

Device ID1234567890

Authentication Methoduse-token-auth

Authentication TokenNWAxdsFm4hMtPgSxQd

⚠ Authentication tokens are non-recoverable. If you misplace this token, you will need to re-register the device to generate a new authentication token.

Find out how to add these credentials to your device

0 Simulations running

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Browse

Action

Device Types

Interfaces

Add Device

This table shows a summary of all devices that have been added. It can be filtered, organized, and searched on using different criteria. To get started, you can add devices by using the Add Device button, or by using API.

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added
12345	Disconnected	NodeMCU	Device	Nov 11, 2022 11:44 PM
123456789	Disconnected	Wokwi_Bavi	Device	Nov 12, 2022 10:43 AM
1234567890	Connected	nodemculocation	Device	Nov 12, 2022 5:01 PM
1904072	Disconnected	citibavi	Device	Nov 12, 2022 1:10 PM

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Connection Information

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Recent Events

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

Event	Value	Format	Last Received
status	{"name":"Smartbridge","lat":17.4219272,"lon":7...	json	a few seconds ago
status	{"name":"Smartbridge","lat":17.4219272,"lon":7...	json	a few seconds ago

State

This table shows a list of data points that are reported.

0 Simulations running

Python output :

[illegible]

Result:

A python code for publishing the location (latitude and longitude) data to the IBM IoT platform has been created successfully.