

# DEVELOP PYTHON SCRIPT

<b>Team ID</b>	<b>PNT2022TMID01703</b>
<b>Project title</b>	<b>Personal Assistance for seniors who are self-reliant</b>
<b>Date</b>	<b>14 November 2022</b>

## Objective:

Write a python code for connect with the IBM Iot Platform and sent data to the device.

## Code:

```
import time
import random
#import ibmiotf.application
import ibmiotf.device
import sys

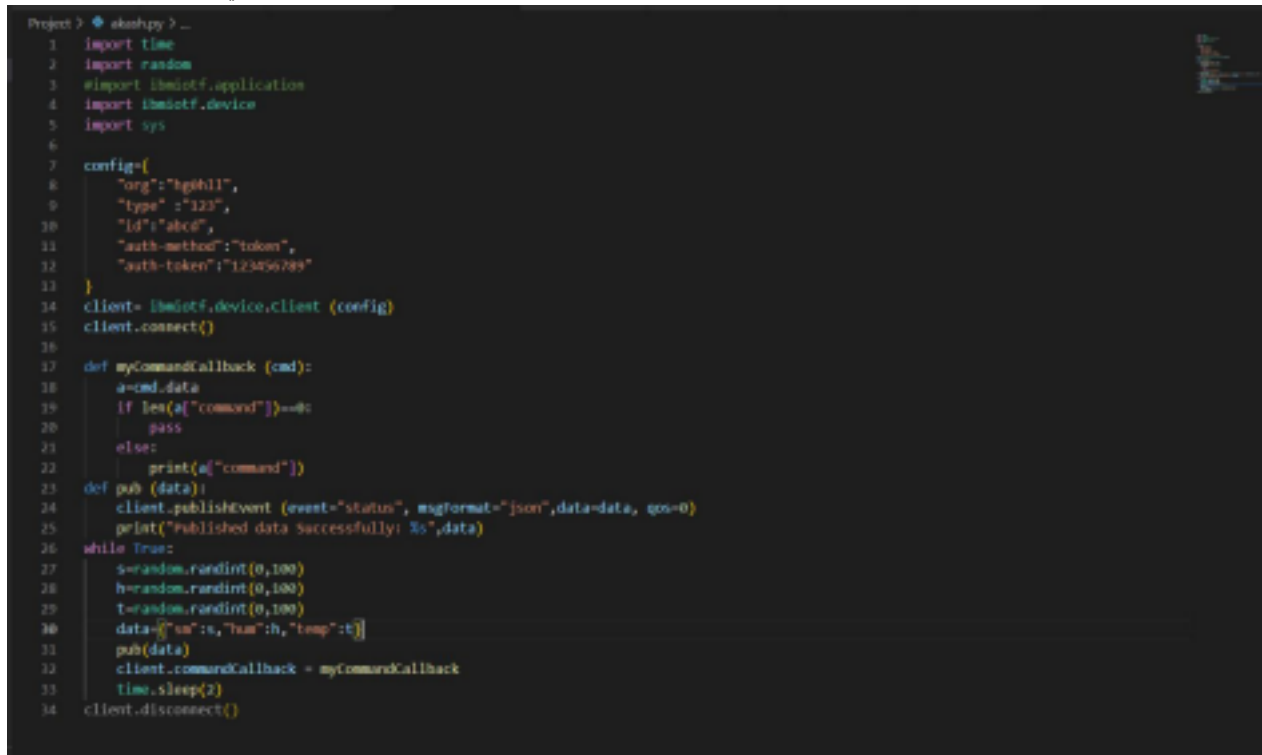
config={
    "org":"hg0hll",
    "type" : "123",
    "id": "abcd",
    "auth-method": "token",
    "auth-token": "123456789"
}
client= ibmiotf.device.Client (config)
client.connect()

def myCommandCallback (cmd):
    a=cmd.data
    if len(a["command"])==0:
        pass
    else:
        print(a["command"])
def pub (data):
    client.publishEvent (event="status", msgFormat="json",data=data, qos=0)
    print("Published data Successfully: %s",data)
```

```

while True:
    s=random.randint(0,100)
    h=random.randint(0,100)
    t=random.randint(0,100)
    data={"sm":s,"hum":h,"temp":t}
    pub(data)
    client.commandCallback = myCommandCallback
    time.sleep(2)
client.disconnect()

```

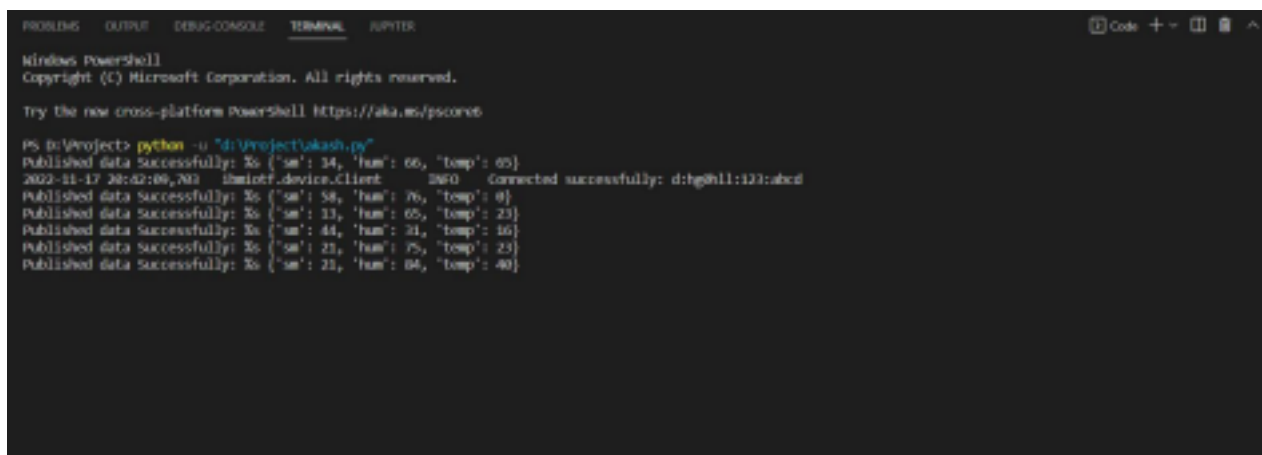


```

Project > akashpy > ...
1  import time
2  import random
3  #import ibmiotf.application
4  import ibmiotf.device
5  import sys
6
7  config={
8      "org":"dthg0hl1",
9      "type": "123",
10     "id":"abcd",
11     "auth-method":"token",
12     "auth-token":"123456789"
13 }
14 client= ibmiotf.device.client (config)
15 client.connect()
16
17 def myCommandCallback (cmd):
18     a=cmd.data
19     if len(a["command"])==0:
20         pass
21     else:
22         print(a["command"])
23
24 def pub (data):
25     client.publishEvent (event="status", msgformat="json",data=data, qos=0)
26     print("Published data Successfully: %s",data)
27
28 while True:
29     s=random.randint(0,100)
30     h=random.randint(0,100)
31     t=random.randint(0,100)
32     data={"sm":s,"hum":h,"temp":t}
33     pub(data)
34     client.commandCallback = myCommandCallback
35     time.sleep(2)
36 client.disconnect()

```

## Compiler Output:



```

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/powershell

PS C:\project> python -u "d:\project\akash.py"
Published data Successfully: %s ('sm': 34, 'hum': 66, 'temp': 65}
2022-11-17 20:42:00,702 ibmiotf.device.client  INFO Connected successfully: dthg0hl1:123:abcd
Published data Successfully: %s ('sm': 58, 'hum': 76, 'temp': 0}
Published data Successfully: %s ('sm': 13, 'hum': 65, 'temp': 23}
Published data Successfully: %s ('sm': 44, 'hum': 31, 'temp': 16}
Published data Successfully: %s ('sm': 21, 'hum': 75, 'temp': 23}
Published data Successfully: %s ('sm': 21, 'hum': 64, 'temp': 40}

```

## Watson IoT Platform Device:

IBM Watson IoT Platform

Navigation icons

Search by Device ID

Device Simulator

Add Device

Browse

Action

Device Types

Interfaces

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
abcd	Connected	123	Device	Nov 30, 2022 5:22 PM	

Identity

Device Information

Recent Events

State

Logs

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

Event	Value	Format	Last Received
status	["temp":33,"hum":98,"temp":490]	json	a few seconds ago
status	["temp":33,"hum":57,"temp":650]	json	a few seconds ago
status	["temp":42,"hum":16,"temp":775]	json	a few seconds ago
status	["temp":77,"hum":85,"temp":76]	json	a few seconds ago