

Team ID	PNT2022TMID21393
Project Name	Personal Assistance for Seniors Who Are Self-Reliant.
Team Members	Nishok Rajan P, Karthikeyan B, Saravanaprakash S, Viswa Bharathi K

## Objective:

Write a python code for connect with the IBM Iot Platform and send 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 > akash.py > ...
1  import time
2  import random
3  #import ibmiotf.application
4  import ibmiotf.device
5  import sys
6
7  config={
8      "org":"hg0h11",
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:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS D:\Project> python -u "d:\Project\akash.py"
Published data Successfully: %s {'sm': 14, 'hum': 66, 'temp': 65}
2022-11-17 20:42:09,703  ibmiotf.device.Client      INFO    Connected successfully: d:hg0h11:123: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': 84, 'temp': 40}
```

# Watson IoT Platform Device:

IBM Watson IoT Platform

?

nishok@student.tce.edu

ID: hg0Hll

Browse

Action

Device Types

Interfaces

Add Device

Q Search by Device ID

Device Simulator

<input type="checkbox"/>	Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location	
<input checked="" type="checkbox"/>	abcd	Connected	123	Device	Nov 15, 2022 3:22 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	{"sm":10,"hum":98,"temp":49}	json	a few seconds ago
status	{"sm":18,"hum":37,"temp":65}	json	a few seconds ago
status	{"sm":42,"hum":10,"temp":77}	json	a few seconds ago
status	{"sm":7,"hum":88,"temp":76}	json	a few seconds ago