

DEVELOP A PYTHON SCRIPT

Date	13 November 2022
Team ID	PNT2022TMID35583
Project Name	Signs with Smart Connectivity for better road safety

PYTHON SCRIPT:

```
import wiotp.sdk.device
```

```
import time
```

```
import random
```

```
myConfig = {
```

```
"identity":{
```

```
"orgId": "7myu88",
```

```
"typeId": "abcd",
```

```
"deviceId":"12345"},
```

```
"auth":{"token": "12345678"}
```

```
}
```

```
def myCommandCallback(cmd):
```

```
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
```

```
m=cmd.data['command']
```

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

```
client.connect()
```

```
while True:
```

```
temp=random.randint(-20,125)
```

```
hum=random.randint(0,100)
```

```
myData={'temperature': temp, 'humidity':hum}
```

```
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,  
onPublish=None)
```

```
print("Published data Successfully: %s", myData)
```

```
client.commandCallback= myCommandCallback
```

```
time.sleep(2)
```

```
client.disconnect()
```

```
2022-11-18 18:53:07,507 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: d:7myu88:abcd:12345  
INFO:wiotp.sdk.device.client.DeviceClient:Connected successfully: d:7myu88:abcd:12345  
Published data Successfully: %s {'temperature': 86, 'humidity': 86}  
Published data Successfully: %s {'temperature': 11, 'humidity': 34}  
Published data Successfully: %s {'temperature': 11, 'humidity': 60}  
Published data Successfully: %s {'temperature': 78, 'humidity': 22}  
Published data Successfully: %s {'temperature': -10, 'humidity': 31}  
Published data Successfully: %s {'temperature': 53, 'humidity': 64}  
Published data Successfully: %s {'temperature': 102, 'humidity': 14}  
Published data Successfully: %s {'temperature': -3, 'humidity': 55}  
Published data Successfully: %s {'temperature': 12, 'humidity': 90}  
Published data Successfully: %s {'temperature': 19, 'humidity': 87}  
Published data Successfully: %s {'temperature': 40, 'humidity': 84}  
Published data Successfully: %s {'temperature': 107, 'humidity': 28}  
Published data Successfully: %s {'temperature': 8, 'humidity': 38}  
Published data Successfully: %s {'temperature': -9, 'humidity': 91}  
Published data Successfully: %s {'temperature': 89, 'humidity': 2}  
Published data Successfully: %s {'temperature': 79, 'humidity': 70}  
Published data Successfully: %s {'temperature': 23, 'humidity': 37}  
Published data Successfully: %s {'temperature': 57, 'humidity': 22}  
Published data Successfully: %s {'temperature': 64, 'humidity': 15}  
Published data Successfully: %s {'temperature': -16, 'humidity': 95}
```

```
KeyboardInterrupt Traceback (most recent call last)
```

IBM WATSON:

IBM Watson IoT Platform

hemananthini17@gmail.com
ID: 7myu88

Browse

Action

Device Types

Interfaces

Add Device

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
> 12345	Disconnected	abcd	Device	Nov 19, 2022 12:22 AM	→ ...
98765	Disconnected	abode	Device	Nov 19, 2022 11:17 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
Data	{ "temp":16.3,"Humid":40 }	json	a few seconds ago
Data	{ "temp":16.3,"Humid":40 }	json	a few seconds ago
Data	{ "temp":16.3,"Humid":40 }	json	a few seconds ago
Data	{ "temp":16.3,"Humid":40 }	json	a few seconds ago
Data	{ "temp":16.3,"Humid":40 }	json	a few seconds ago

0 Simulations running