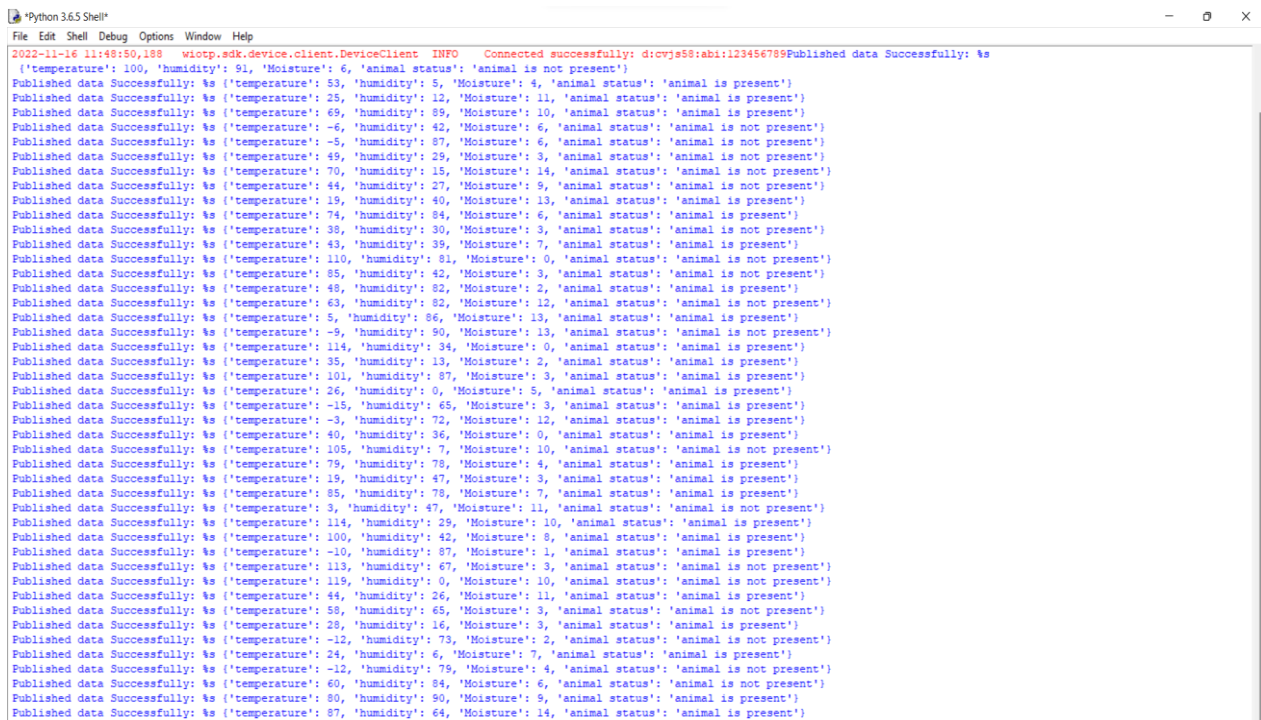


# DEVELOP A PYTHON SCRIPT

Date	12 September 2022
Team ID	PNT2022TMID41893
Project Name	IOT Based Smart Crop Protection For Agriculture

```
import wiotp.sdk.device
import time
import random
myConfig={
    "identity": {
        "orgId": "cvjs58",
        "typeId": "abi",
        "deviceId": "123456789"},
    "auth": {
        "token": "622519104001"
    }
}
def myCommandCallback(cmd):
    print("Message received from IBM IoT Platform: %s" % cmd.data['command'])
    m=cmd.data['command']
    if(m=="motoron"):
        print("Motor is switched on")
    elif(m=="motoroff"):
        print("Motor is switched off")
    print(" ")
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
    temp=random.randint(-20,125)
    hum=random.randint(0,100)
    moist=random.randint(0,14)
    animal=random.randint(0,1)
    if(animal>0.5):
        an="animal is present"
    else:
        an="animal is not present"
    myData={'temperature':temp, 'humidity':hum, 'Moisture':moist,"animal status":an}
    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()
```



```
*Python 3.6.5 Shell*
File Edit Shell Debug Options Window Help
2022-11-16 11:48:50,188 wiotp.sdk.device.client.DeviceClient INFO Connected successfully: drcvjs58:abi:123456789Published data Successfully: %s
({'temperature': 100, 'humidity': 91, 'Moisture': 6, 'animal status': 'animal is not present'})
Published data Successfully: %s ('temperature': 53, 'humidity': 5, 'Moisture': 4, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 25, 'humidity': 12, 'Moisture': 11, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 69, 'humidity': 89, 'Moisture': 10, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': -6, 'humidity': 42, 'Moisture': 6, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': -5, 'humidity': 87, 'Moisture': 6, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 49, 'humidity': 29, 'Moisture': 3, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 70, 'humidity': 15, 'Moisture': 14, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 44, 'humidity': 27, 'Moisture': 9, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 19, 'humidity': 40, 'Moisture': 13, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 74, 'humidity': 84, 'Moisture': 6, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 38, 'humidity': 30, 'Moisture': 3, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 43, 'humidity': 39, 'Moisture': 7, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 110, 'humidity': 81, 'Moisture': 0, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 85, 'humidity': 42, 'Moisture': 3, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 48, 'humidity': 82, 'Moisture': 2, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 63, 'humidity': 82, 'Moisture': 12, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 5, 'humidity': 86, 'Moisture': 13, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': -9, 'humidity': 90, 'Moisture': 13, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 114, 'humidity': 34, 'Moisture': 0, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 35, 'humidity': 13, 'Moisture': 2, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 101, 'humidity': 87, 'Moisture': 3, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 26, 'humidity': 0, 'Moisture': 5, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': -15, 'humidity': 65, 'Moisture': 3, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': -3, 'humidity': 72, 'Moisture': 12, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 40, 'humidity': 36, 'Moisture': 0, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 105, 'humidity': 7, 'Moisture': 10, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 79, 'humidity': 78, 'Moisture': 4, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 19, 'humidity': 47, 'Moisture': 3, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 85, 'humidity': 78, 'Moisture': 7, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 3, 'humidity': 47, 'Moisture': 11, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 114, 'humidity': 29, 'Moisture': 10, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 100, 'humidity': 42, 'Moisture': 8, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': -10, 'humidity': 87, 'Moisture': 1, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 113, 'humidity': 67, 'Moisture': 3, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 119, 'humidity': 0, 'Moisture': 10, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 44, 'humidity': 26, 'Moisture': 11, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 58, 'humidity': 65, 'Moisture': 3, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 28, 'humidity': 16, 'Moisture': 3, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': -12, 'humidity': 73, 'Moisture': 2, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 24, 'humidity': 6, 'Moisture': 7, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': -12, 'humidity': 75, 'Moisture': 4, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 60, 'humidity': 84, 'Moisture': 6, 'animal status': 'animal is not present')
Published data Successfully: %s ('temperature': 80, 'humidity': 90, 'Moisture': 9, 'animal status': 'animal is present')
Published data Successfully: %s ('temperature': 87, 'humidity': 64, 'Moisture': 14, 'animal status': 'animal is present')
```

[Browse](#) [Action](#) [Device Types](#) [Interfaces](#)[Add Device](#) 

▼

123456789

Connected

abi

Device

Nov 16, 2022 10:24 AM

→ ...

[Identity](#)[Device Information](#)[Recent Events](#)[State](#)[Logs](#)[X](#)

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

Event	Value	Format	Last Received
status	{"temperature":109,"humidity":19,"Moisture":6,"...	json	a few seconds ago
status	{"temperature":97,"humidity":8,"Moisture":14,"a...	json	a few seconds ago
status	{"temperature":54,"humidity":30,"Moisture":4,"a...	json	a few seconds ago
status	{"temperature":35,"humidity":79,"Moisture":6,"a...	json	a few seconds ago
status	{"temperature":13,"humidity":71,"Moisture":12,"...	json	a few seconds ago