

Team ID	PNT2022TMID42568
Project Name	Smart Farmer - IoT Enabled Smart Farming Application

The Python Code

```
import wiotp.sdk.device

import time

import os

import datetime

import random

myConfig = {

    "identity": {

        "orgId": "hj5fmy",

        "typeId": "Device1",

        "deviceId": "67890"

    },

    "auth": {

        "token": "87654321"

    }

}

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

client.connect()


def myCommandCallback(cmd):
```

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

m=cmd.data['command']

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(" ")

while True:

    soil=random.randint(0,100)

    temp=random.randint(-20,125)

    hum=random.randint(0,100)

    myData={'Soil_Moisture':Soil, 'Temperature':Temp, 'Humidity':Hum}

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

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

    time.sleep(2)

    client.commandCallback = myCommandCallback

client.disconnect()
```