

DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM

DOMAIN: INTERNET OF THINGS

Project Title: Smart Farmer – IOT Enabled Smart Farming Application

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Python Code:

```
import wiotp.sdk.device
import time
import os
import datetime
import random

myConfig = {
    "identity": {
        "orgId": "vut8fi",
        "typeId": "NodeMCU",
        "deviceId": "12345"
    },
    "auth": {
        "token": "12345678"
    }
}

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']
    if(m=="motorON"):
        print("Motor is switched ON")
    elif(m=="motorOFF"):
        print("Motor is switched OFF")
    print("")

while True:
    temp=random.randint(-20,125)
    soil=random.randint(0,100)
    hum=random.randint(0,100)
```

```
myData={'temperature':temp, 'soil_moisture':soil, 'humidity':hum}
client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0, onPublish=None)
print("Published data Successfully: %s", myData)
time.sleep(3)
client.commandcallback = myCommandCallback
client.disconnect()
```