

PYTHON SCRIPT

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| Team ID | PNT2022TMID05121 |
| Project Name | IoT based Smart crop Protection System for agriculture |

Code:

```
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "76fcms",
        "typeId": "adsdevice",
        "deviceId": "1109"
    },
    "auth": {
        "token": "16092001"
    }
}

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(0,100)
    hum=random.randint(0,100)
    soil=random.randint(0,100)
    myData={'Temperature':temp,
            'Humidity':hum,
            'SoilMoisture':soil}
    client.publishEvent(eventId="status", msgFormat="json", data=myData, qos=0,
onPublish=None)
    print("Published data Successfully: %s", myData)
    if(soil<25):
        print("Motor is ON")
    else:
        print("Motor is OFF")
```

```
client.commandCallback = myCommandCallback  
time.sleep(2)  
client.disconnect()
```