

DEVELOP THE PYTHON CODE

Team ID	PNT2022TMID13530
Project	Smart Farmer-IoT Enabled Smart Farming Application

PROGRAM:

```
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(myConfig,logHandlers=None)
```

```
clinet.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:
    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(eventide="status",msgFormat="json",data=myData,
                        qos=0,onPublish=None)

    myDatatime.sleep(2)
    client.commandCallback=myCommandCallback

client.disconnect()

```