

SPRINT 1

SmartFarmer - IoT Enabled Smart Farming Application

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Python code:

```
import wiotp.sdk.device
```

```
import time
```

```
import os
```

```
import random
```

```
myconfig = {
```

```
    "identity": {
```

```
        "orgId": "3lnltf",
```

```
        "typeId": "NodeMCU",
```

```
        "deviceId": "12345"
```

```
    },
```

```
    "auth": {
```

```
        "token": "12345678"
```

```
    }
```

```
}
```

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

client.connect()

def myCommandCallback(cmd):
    print("Messure recived from IBM ToT Platform: %s" %
cmd.data['command'])
    m=cmd.data['command']
    if(m=="Motor is switched on"):
        print("Motoris switched on"
            elif(m=="motoroff"):
                print("Motor is switched OFF")
        print("")
    while True:
        soil=random.randint(22, 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()
```