

SPRINT-1

Date	24 October 2022
Team ID	PNT2022TMID27105
Project Name	Project - SmartFarmer-IoT Enabled Smart Farming Application

PYTHON CODE:

```
import wiotp.sdk.device
import time
import random
myConfig = {
    "identity": {
        "orgId": "42cic2",
        "typeId": "sudharshanlaptop",
        "deviceId": "12345"
    },
    "auth": {
        "token": "*zSbeu!vc(!+Xn@520"
    }
}

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(" ")
```

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

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