

Develop The Python Code:

Team ID	PNT2022TMID07443
Project Name	Smart Farmer – IoT Enabled Smart Farming Application

Code:

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

myConfig = {
    "identity":{
        "orgId": "cpeq2u",
        "typeId": "TestDevice",
        "deviceId": "082001"
    },
    "auth": {
        "token": "8))+idxmB_q2PM@uvP"
    }
}

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