

Project Development Phase

SPRINT-1

Team ID	PNT2022TMID19466
Project Title	Smart Farmer – IoT enabled Smart Farming Application
Date	15-11-2022

CODE:

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

myConfig = {"identity": {"orgId": " 023f97" "typeId": "NodeMCU" "deviceId":"12345"},
"auth":{ "token": " CT8N7Sz?giHVFxk-V?" } }

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

client.connect ()

def myCommandCallhack (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, gos=0, onPublish=None)
print ("Published data Successfully: %s", myData)
time.sleep (2)
client.commandCallback = myCommandCallback
client.disconnect ()
```