PROJECT DEVELOPMENT PHASE

Team ID	PNT2022TMID06235
Project Name	Project - IoT Based Smart Crop Protection System for Agriculture

SPRINT - 4:

PROGRAM:

```
import json
import wiotp.sdk.device
import time
import random
import ibmiotf.application
import ibmiotf.device
myConfig = {
    "identity": {
        "orqId": "vwcvi9",
        "typeId": "ESP32",
        "deviceId":"12345"
    },
    "auth": {
        "token": "12345678"
def myCommandCallback(cmd):
    print("Command received: %s" % cmd.data['command'])
    status=cmd.data['command']
    if status=="lighton":
       print ("light is on")
    elif status == "lightoff":
       print ("light is off")
    elif status == "motoron":
       print ("motor is on")
    elif status == "motoroff":
       print ("motor is off")
    else :
       print ("please send proper command")
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
```

```
soil=random.randint(0,30)
humid=random.randint(0,200)
temp=random.randint(1,100)
pir=random.randint(0,1)
```

myData={'SoilMoisture':soil,'Humidity':humid,'Temperature':temp,'PIRmotion
':pir}

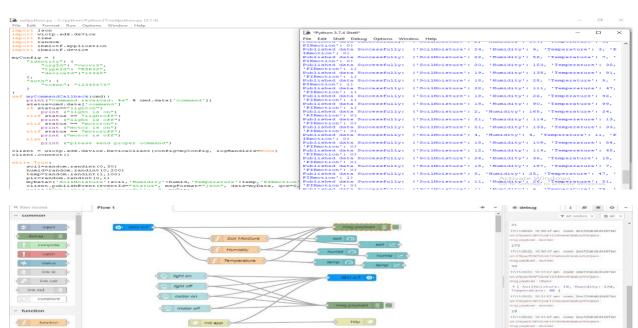
client.publishEvent(eventId="status", msgFormat="json", data=myData,
qos=0, onPublish=None)

print("Published data Successfully: ", myData)
time.sleep(20)

client.commandCallback = myCommandCallback

[get] /data

client.disconnect()





http