Sprint 2

Date	18 NOV 2022
Team ID	PNT2022TMID24432
Project Name	Project - IoT Based Smart Crop Protection System for Agriculture

PROGRAM:

```python
import json
import wiotp.sdk.device
import time
import random
import ibmiotf.application
import ibmiotf.device

myConfig = {
    "identity": {
        "orgId": "gtlwge,
        "typeId": "NodeMCU"",
        "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")
```

```python
        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,'Te
mperature':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

client.disconnect()
```