DEVELOP A PYTHON SCRIPT TO
PUBLISH AND SUBSRIBETO IBM IOT
PLATFORM

Team ID	PNT2022TMID02463
Project Name	IoT Based Smart Crop Protection System for Agriculture

CODE

```python
import
wiotp.sdk.device
import time
import os import
datetime  import
random myConfig = {
"identity": {
 "orgId": "m5ttid" ,
"typeId": "Devicel" ,
 "deviceId": "12345"
 },
 "auth": {
 "token": "12345678"
}
}
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['comman d']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 =

myCommandCallbackclient.disconnect ()
```