

V.S.B Engineering College

DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM

Team ID	PNT2022TMID33476
Project Name	SMART FARMER – IoT ENABLED SMARTFARMING APPLICATION

Program:

```
import
wiotp.sdk.device
import time import
os
import
datetime
import
random
myConfig =
{ "identity": {
"orgId": "m5ttid",
"typeId": "Device1",
"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 ()
```