

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

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Team ID	PNT2022TMID34125
Project Name	SMART FARMER – IoT ENABLED SMARTFARMING APPLICATION

### Program:

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig =
{ "identity": {
"orgId": "p5do1i",
"typeId": "celsia123",
"deviceId": "trainingid"
},
"auth": {
"token": "(ZUuolSGptC*h3vP!-"
}
}
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['command']
if (m=="motoron"):
print ("Motor is switched on")
elif (m=="motoroff"):
print ("Motor is switched OFF")
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 ()
```