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

Date	**3rd November 2022**
Team ID	**PNT2022TMID13070**
Project Name	**IoT Enabled Smart Farming Application**

PROGRAM:

```python
import wiotp.sdk.device
import time import os import
datetime import random
myConfig = {
"identity": {
"orgId": "hjSfmy",
"typeId": "Devicelk",
"deviceId": "67890"
},
"auth": {
"token": "87654321"
}
}
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")
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 = myCommandCallback
client.disconnect ()
```