IBM NALAIYATHIRAN

SMART FARMER-IOT ENABLED SMART FARMING APPLICATION

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

Title	Smart farmer-IoT enabled smart farming application
Domain	Internet of Things
Team ID	PNT2022TMID44170
Project Name	Project – Smart Farmer-IoT Enabled smartFarming Application

PYTHON CODE:

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
"identity": {
"orgId": "48uqbr",
"typeId": "hasnarahah09",
"deviceId": "hasna09"
},
"auth": {
"token": "glo4Y*)BMQqN8HR9T9"
}
}
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 ()
```