### **SMART FARMER – IOT ENABLEDD SMART FARMING**

#### **APPLICATION**

### PROJECT DEVELOPMENT - DELIVERY OF

### SPRINT - 3

DATE	17 NOVEMBER 2022
TITLE	SMART FARMER – IOT ENABLED SMART
	FARMING APPLICATION
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# DEVELOP A PYTHON SCRIPT TO PUBLISH AND SUBSCRIBE TO IBM IOT PLATFORM:

## **PYTHON CODE**

import wiotp.sdk.device import time import os import datetime import random

```
myConfig = {
"identity":{
  "orgId":"nqhzg5",
  "typeId":"Node-red",
```

```
"deviceId":"1234"
},
"auth":{
"token":"12345678"
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()

## **OUTPUT**

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## **MOBILE APP WEB:**

