

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

### **APPLICATION**

### **PROJECT DEVELOPMENT – DELIVERY OF**

### **SPRINT – 3**

<b>DATE</b>	17 NOVEMBER 2022
<b>TITLE</b>	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"
} } 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)

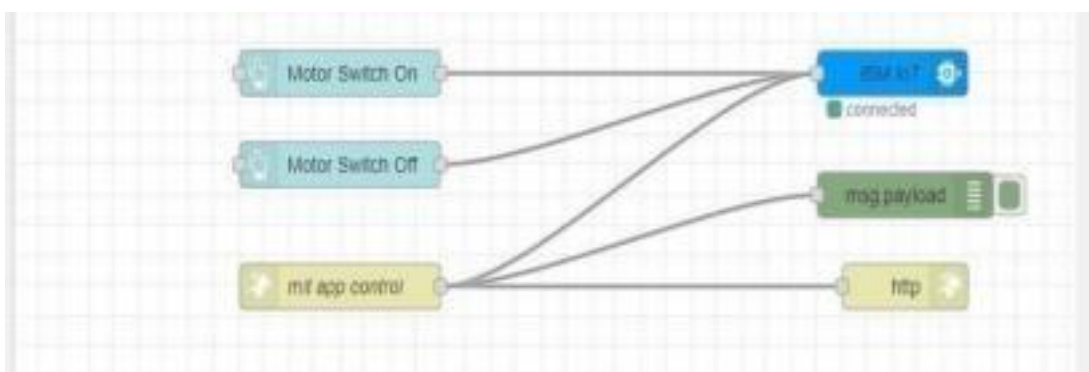
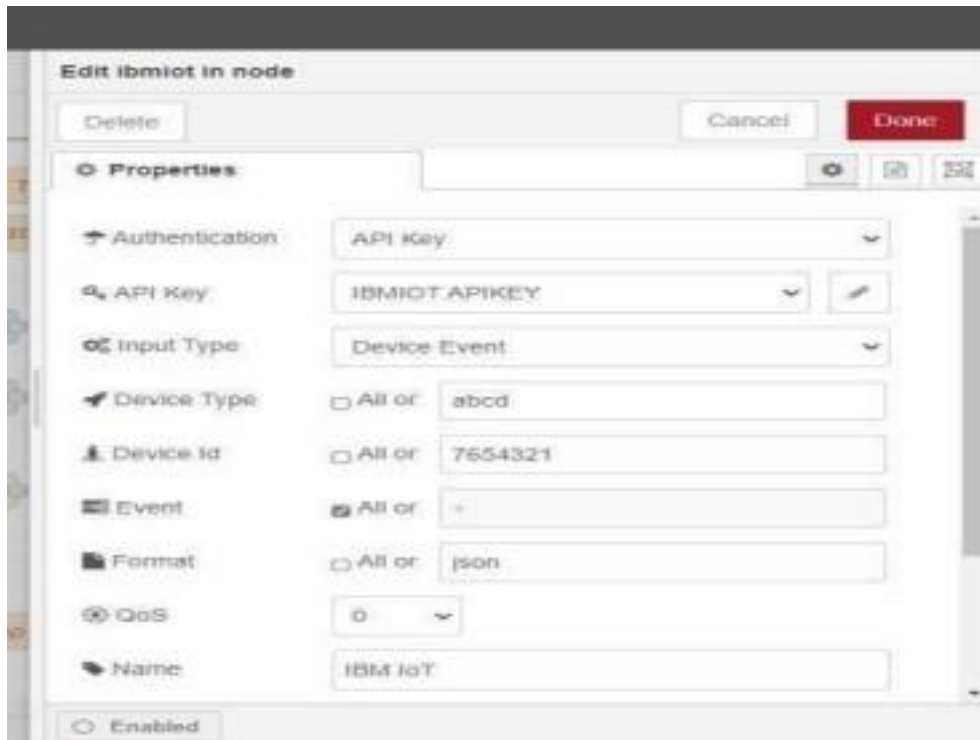
    myData={'soil_moisture':soil,'temperature':temp,'humidity':hum}
    client.publishEvent(eventId="status",          msgFormat="json",
    data=myData, qos=0, onPublish=None) print("Published data
successfully: %s", myData) time.sleep(2)

```

```
client.commandCallback = myCommandCallback
```

```
client.disconnect()
```

## OUTPUT



## MOBILE APP WEB:

