**SMART FARMER – IOT ENABLEDD SMART FARMING APPLICATION**

**PROJECT DEVELOPMENT – DELIVERY OF SPRINT – 3**

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

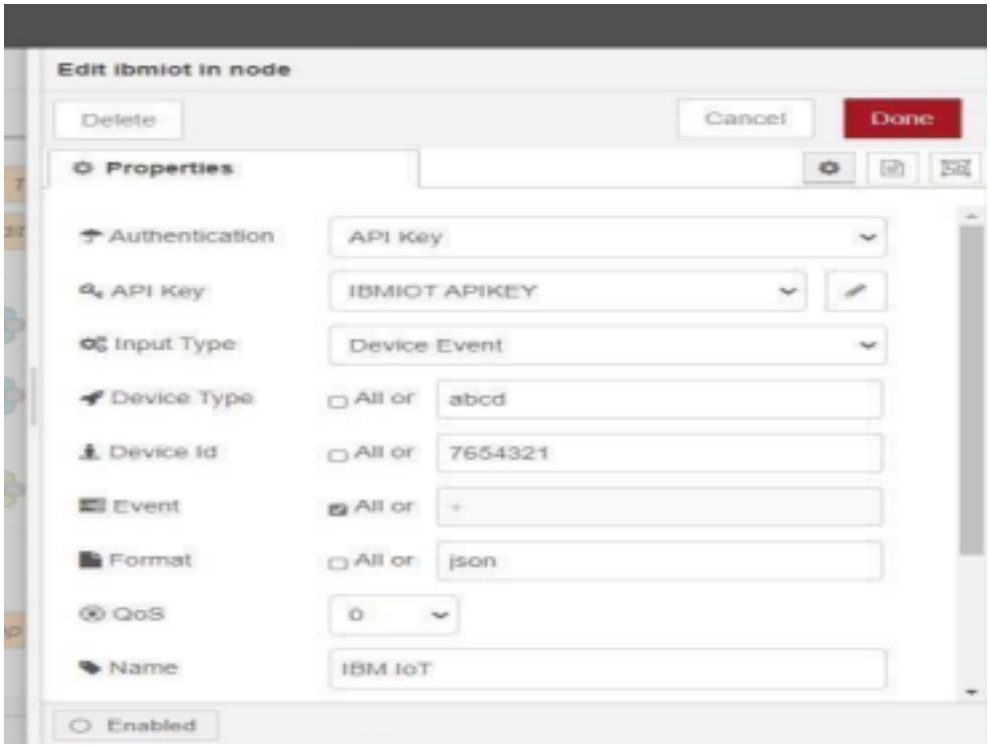
## PYTHON CODE

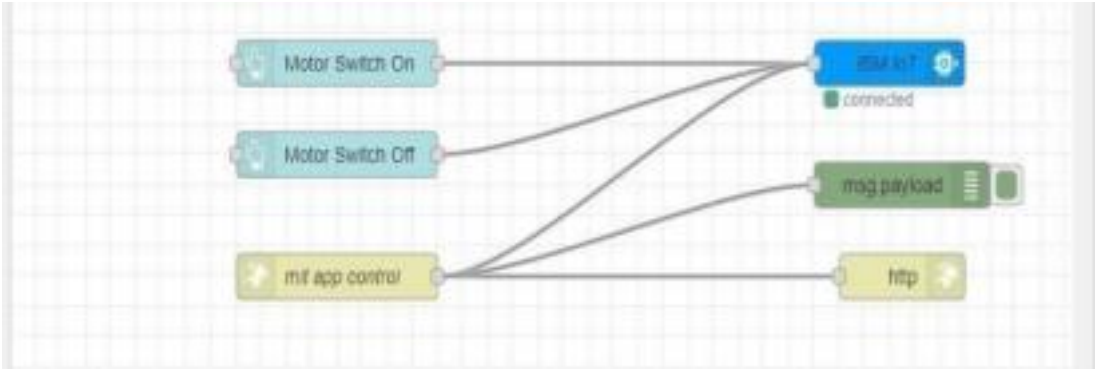
```
import wiotp.sdk.device
import time
import os
import datetime
import random

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: