### SPRINT DELIVERY – IV

Project Name: SmartFarmer-lot Enabled SmartFarming Application.

Team ID: PNT2022TMID32489

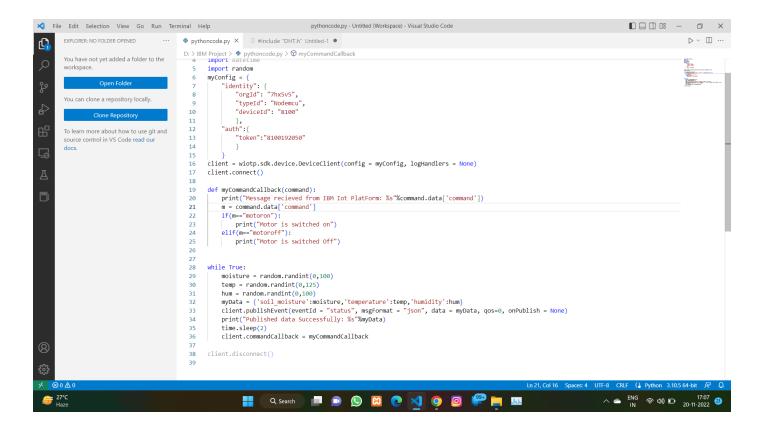
## **Develop A Mobile Application**

- ✓ Node-Red Contains /Data and /Command Requests
- ✓ /Data command is used to access the MIT App Inventor
- √ /Command is used to send and receive the Motor Control response and request(on/off)
- ✓ Every one second the parameter is update
- ✓ App inventor contains blocks, with these help of these blocks we can build our application

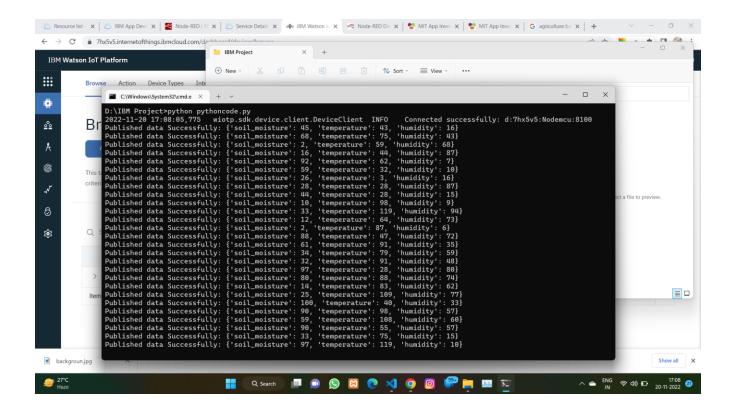
#### **Source Code**

```
import wiotp.sdk.device
import time
import os
import datetime
import random
myConfig = {
"identity": {
"orgId": "7hx5v5",
"typeId": "Nodemcu".
"deviceId": "8100"
"auth":{
"token": "8100192050"
}
client = wiotp.sdk.device.DeviceClient(config = myConfig, logHandlers = None)
client.connect()
def myCommandCallback(command):
print("Message recieved from IBM lot PlatForm:
%s"%command.data['command'])
m = command.data['command']
if(m=="motoron"):
print("Motor is switched on")
elif(m=="motoroff"):
print("Motor is switched Off")
while True:
moisture = random.randint(0,100)
temp = random.randint(0,125)
hum = random.randint(0,100)
```

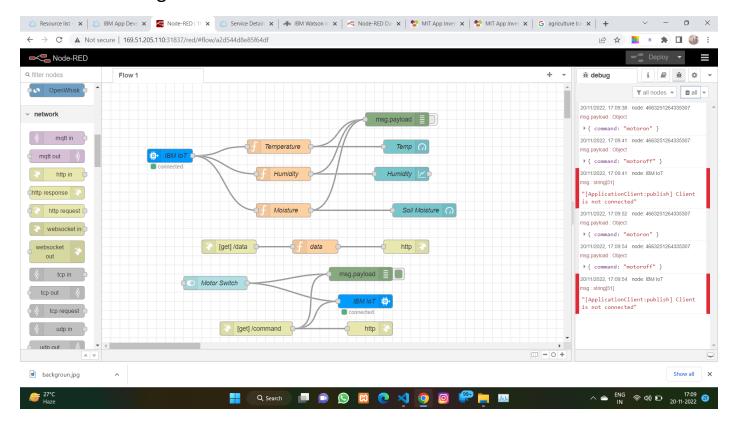
myData = {'soil\_moisture':moisture,'temperature':temp,'humidity':hum} client.publishEvent(eventId = "status", msgFormat = "json", data = myData, qos=0, onPublish = None) print("Published data Successfully: %s"%myData) time.sleep(2) client.commandCallback = myCommandCallback client.disconnect()



#### Command Line



## **Node-Red Config**



# **Application Output**

