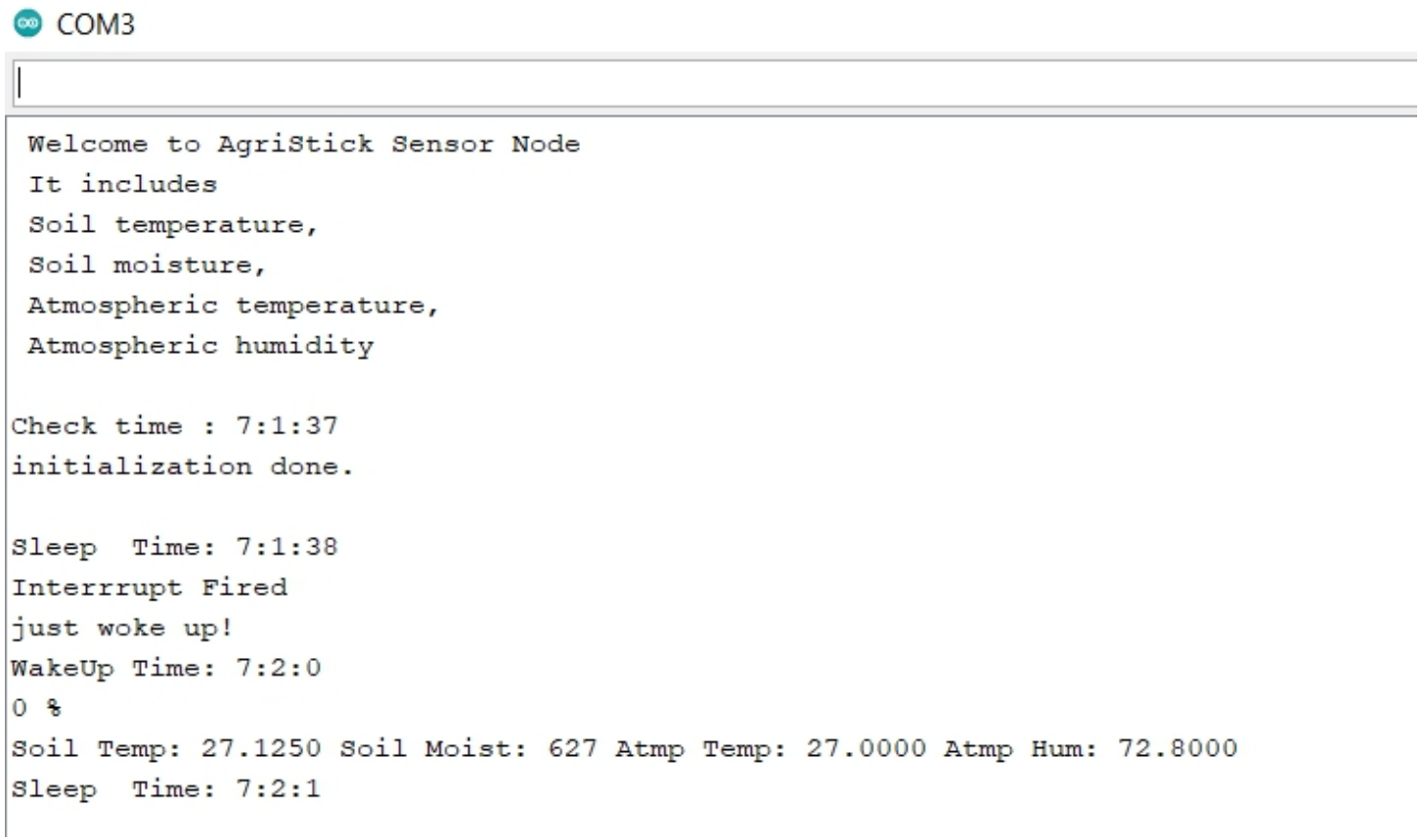
AGRICULTURE PROJECT

Meeting 2

COMBINING SENSORS ALTOGETHER

- Connected all the 3 sensors together along with rtc timer.
- Scheduled alarm to wake up Arduino from sleep mode.

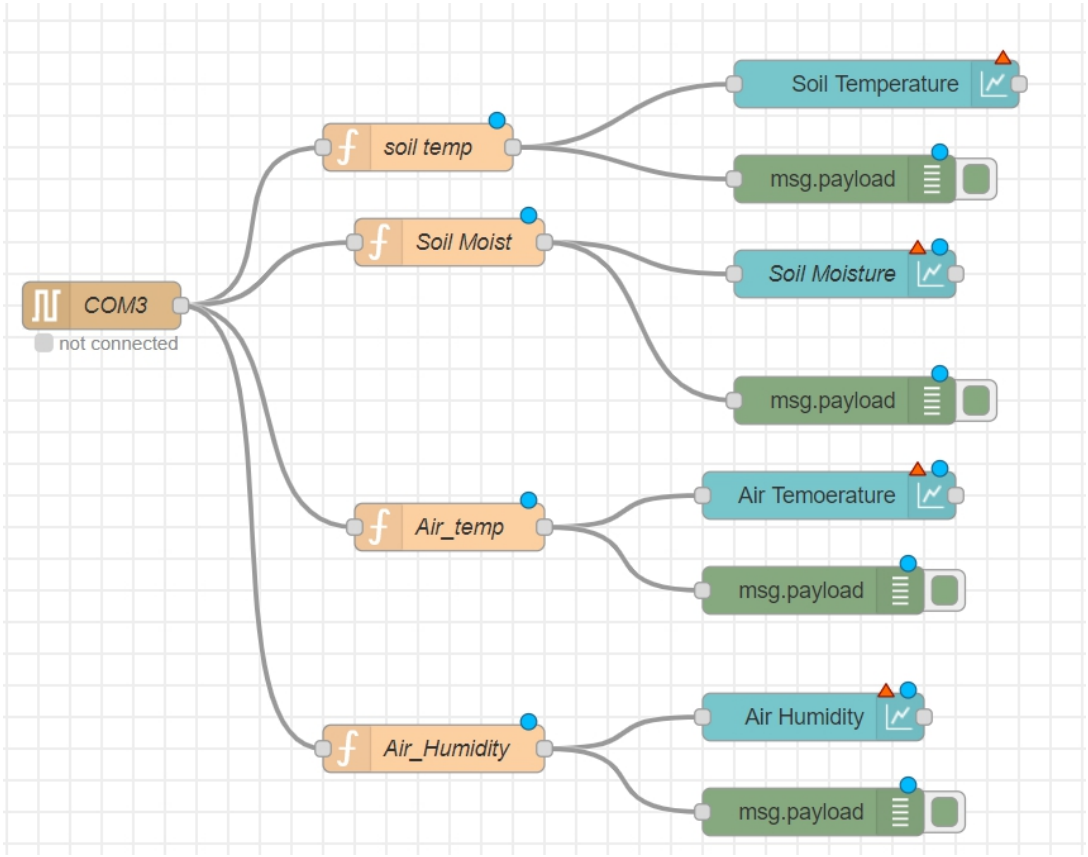
SENSORS VALUE DISPLAY ON SERIAL MONITOR

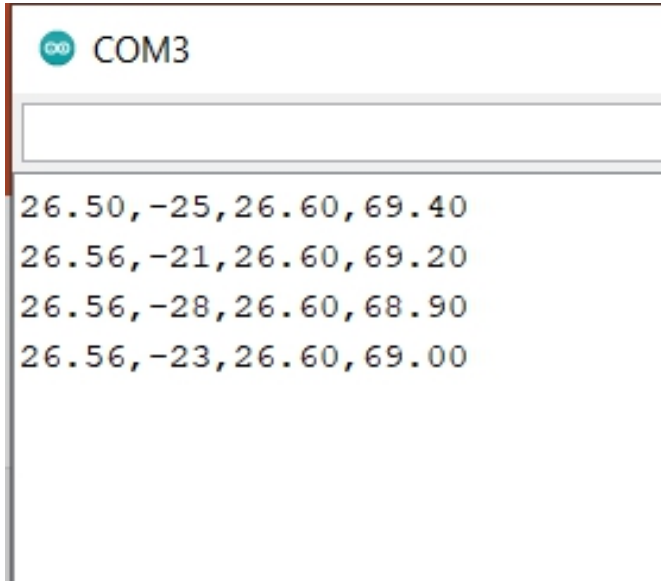


NODE-RED

- Node-RED operates on module based approach where predefined modules are connected graphically to perform the sequence of operations on Node-RED or in other words it directly accesses data from microcontroller boards like **Arduino, Raspberry Pi** using the predefined port no. or pin number.

- **Node-RED** is an open source **IoT tool** and has been implemented by the IBM Emerging Technology organization. It is written in JavaScript and works on the NodeJS platform




COM3
26.50,-25,26.60,69.40
26.56,-21,26.60,69.20
26.56,-28,26.60,68.90
26.56,-23,26.60,69.00

Name soil temp

Setup | **Function** | Close

```
1  var soil1= msg.payload[0]-48;
2  var soil2= msg.payload[1]-48;
3  var soil3= msg.payload[3]-48;
4  var soil4= msg.payload[4]-48;
5  var result = (soil1*1000)+ (soil2*100) + (soil3*10) + soil4;
6  result = result/100;
7  var result1 = {payload:result};
8  return[result1];
```

THINGS PENDING

- To work on deploying Dashboard and data visualization using NODE-RED
- To learn how to use Node-Red properly for this project