

VEL TECH MULTI TECH DR.RANGARAJAN DR.SAKUNTHALA ENGINEERING COLLEGE

Department of Electronics and Communication Engineering

Smart Farmer-IOT Enabled Smart Farming Sprint - 2

TITLE	Smart Farmer-IOT Enabled Smart Farming
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID22476
LEADER NAME	SABARIYA A
TEAM MEMBER NAME	GAYATHRI M S PRIYADHARSHINI A PONSHEEBA M

SIMULATION CREATION :

1. Create device in IOT WATSON Platform :

My credentials given to simulator are:

Organization ID: gebse1

Device Type :NodeMCU1

Device ID : 1234567

Authentication Method : use-token-auth

Authentication Token : 123456789

IBM Watson IoT Platform

gebe1.internetofthings.ibmcloud.com/dashboard/devices/browse

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sabariya_ece19@veltechnmultitech.org ID: gebe1

Browse Action Device Types Interfaces

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
1234567	Disconnected	NodeMCU1	Device	Nov 16, 2022 10:34 AM	

Identity Device Information **Recent Events** State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
event_1	{"randomNumber":83,"temp":107,"hum":82}	json	a few seconds ago
event_1	{"randomNumber":18,"temp":94,"hum":86}	json	a few seconds ago
event_1	{"randomNumber":89,"temp":107,"hum":74}	json	a few seconds ago
event_1	{"randomNumber":90,"temp":98,"hum":70}	json	a few seconds ago
event_1	{"randomNumber":58,"temp":96,"hum":87}	json	a few seconds ago

1 Simulation running

2.Create Boards IOT WATSON Platform:

IBM Watson IoT Platform

gebe1.internetofthings.ibmcloud.com/dashboard/boards/d8c75645-8068-4e49-adb2-8184458cae6b

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Temperature

Line chart Donut chart Gauge

100
50
0

10:41 10:42 10:43 10:44 10:45

5 minutes

temp hum

now

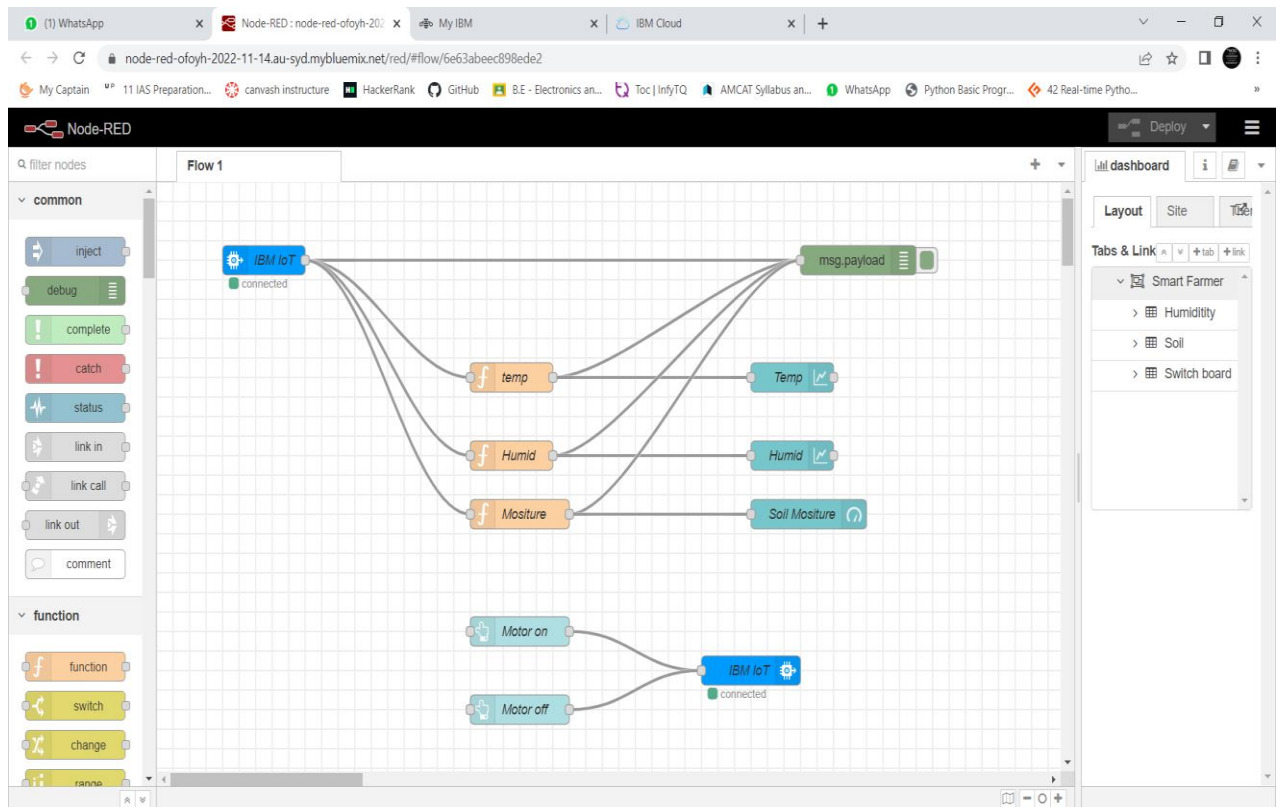
Total
194
°C

temp 107.0 °C
hum 74.0 °C
randomNumber 13.0 °C

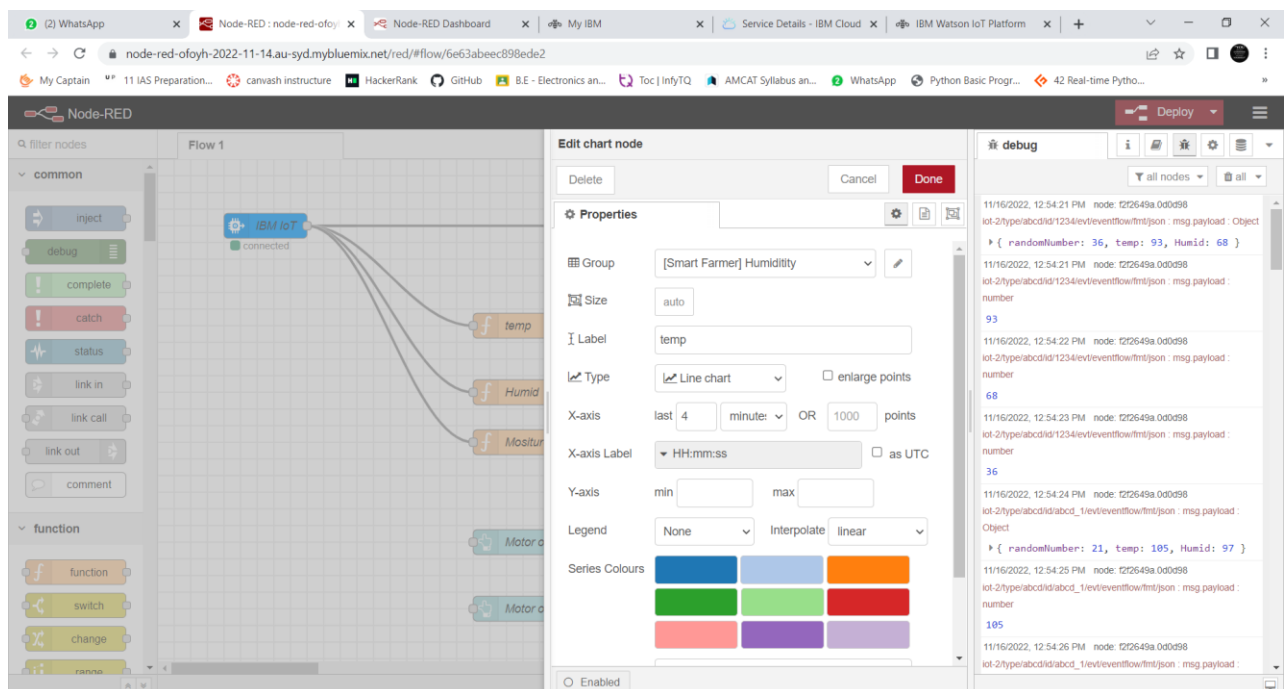
13.0
°C

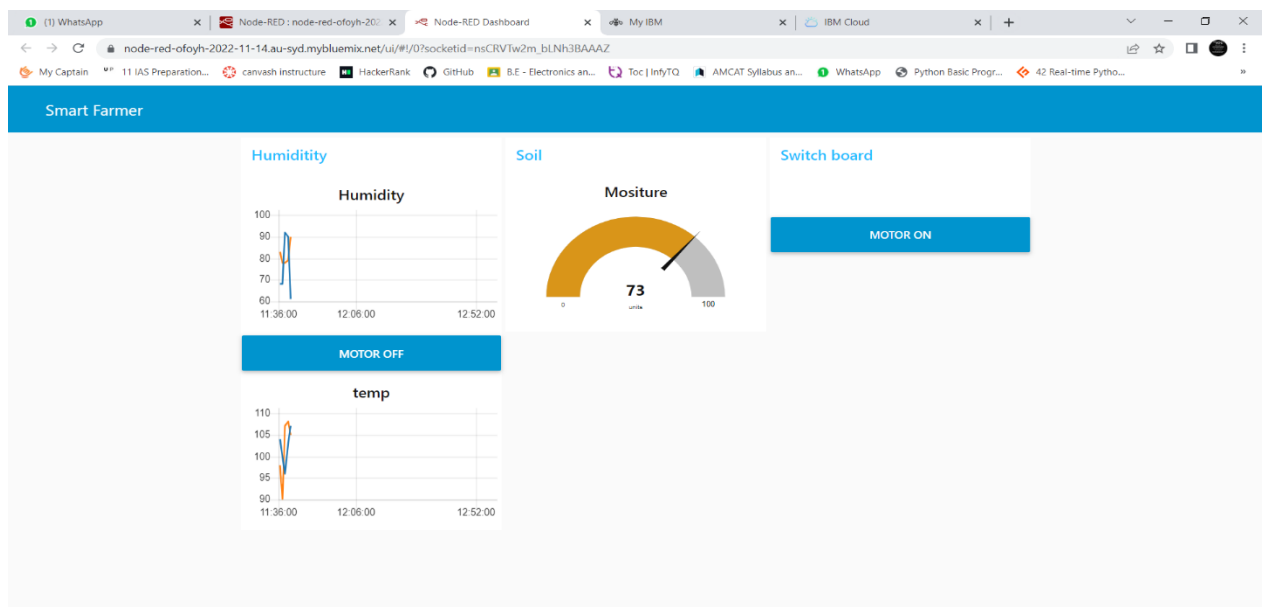
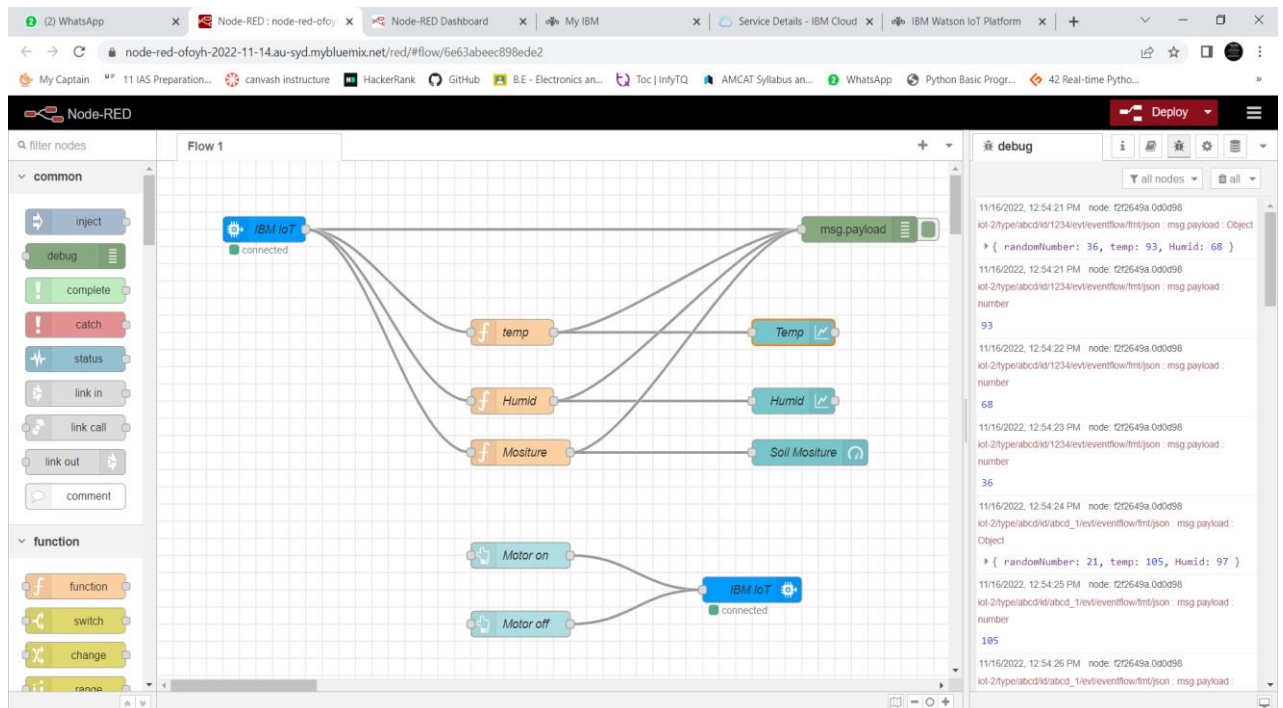
1 Simulation running

3.Workflow for IOT Scenarios using Node Red:



The node IBM IoT App In is added to Node-Red workflow. Then the appropriate device credentials obtained earlier are entered into the node to connect and fetch device telemetry to Node-Red .





Node Red link :

<https://node-red-ofoyh-2022-11-14.au-syd.mybluemix.net/red/#flow/6e63abeec898ede2>