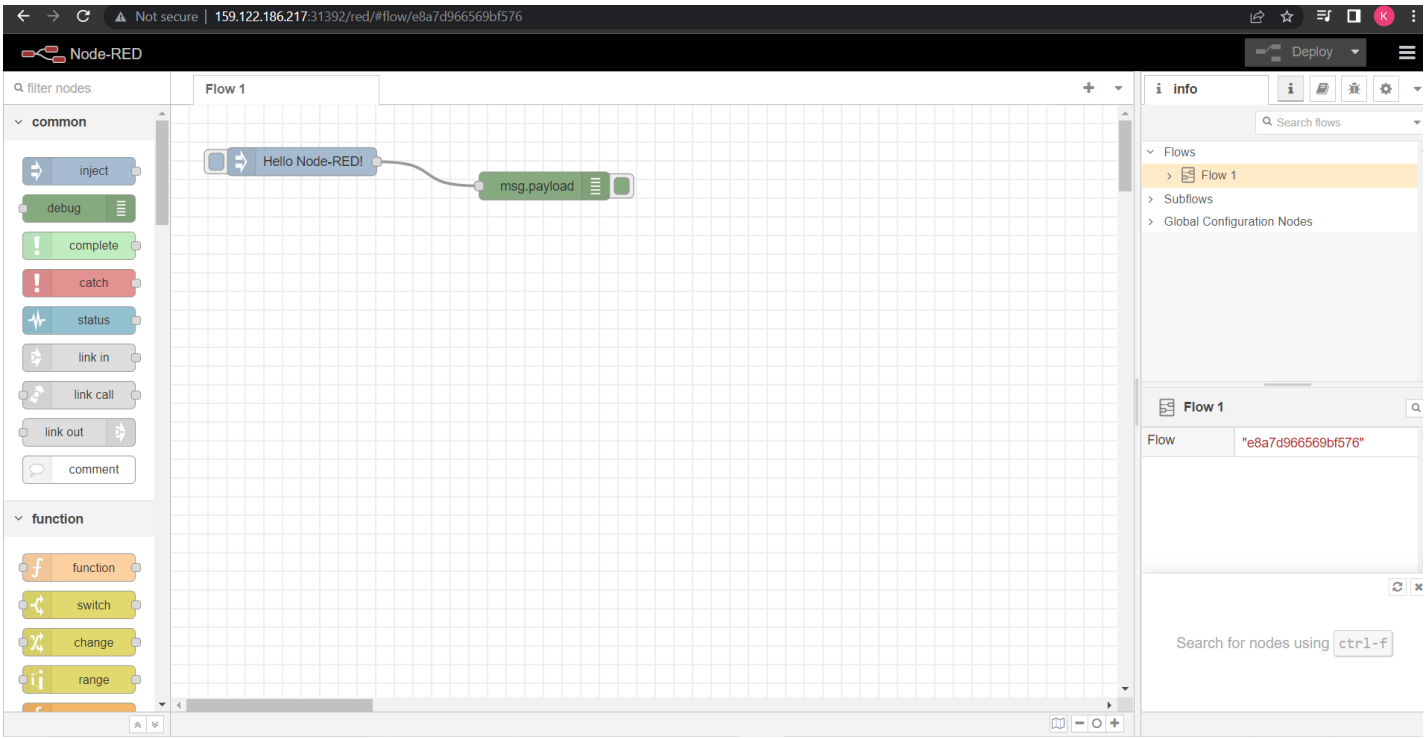
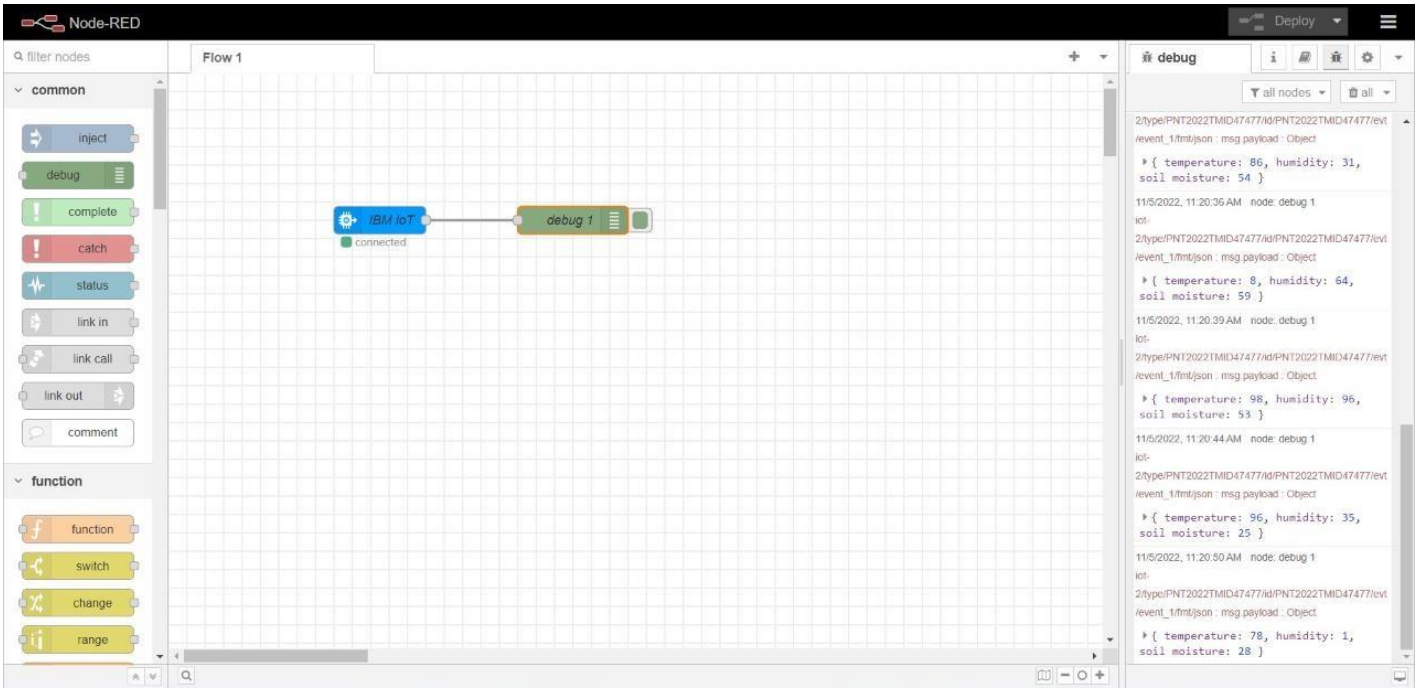
SPRINT-2

Date	02 NOVEMBER 2022
TEAM ID	PNT2022TMID53009
Project Name	IoT Enabled Smart Farming Application
Maximum mark	20 marks

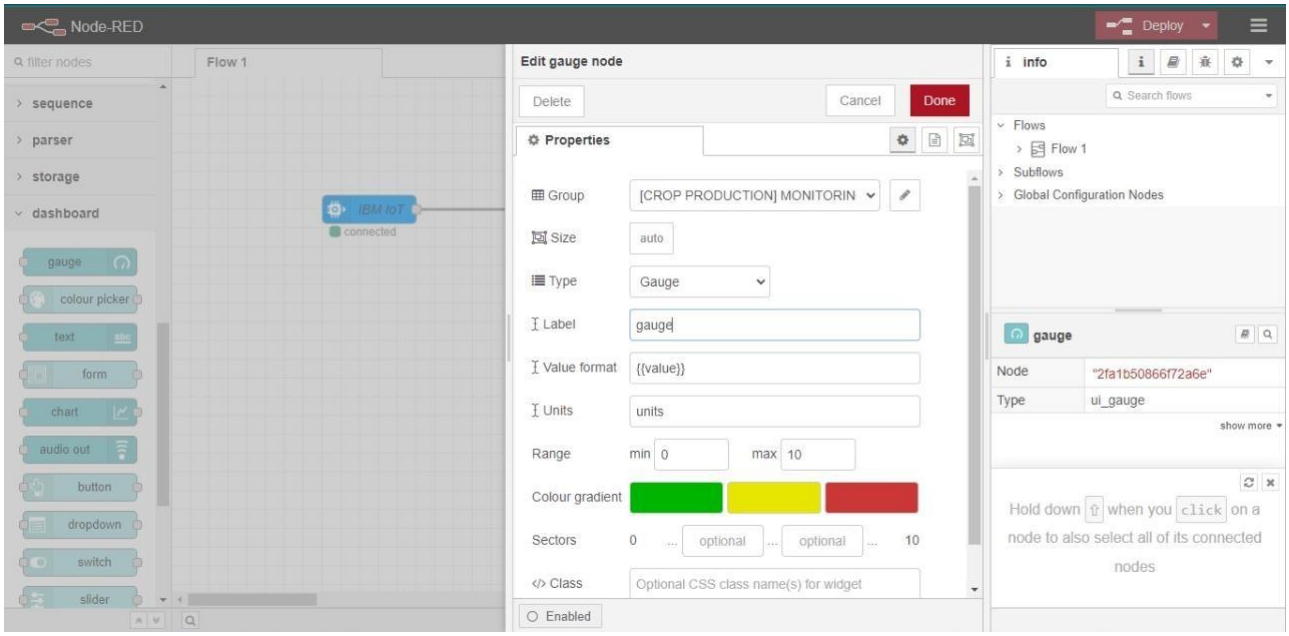
STEP1: Setup Node-Red

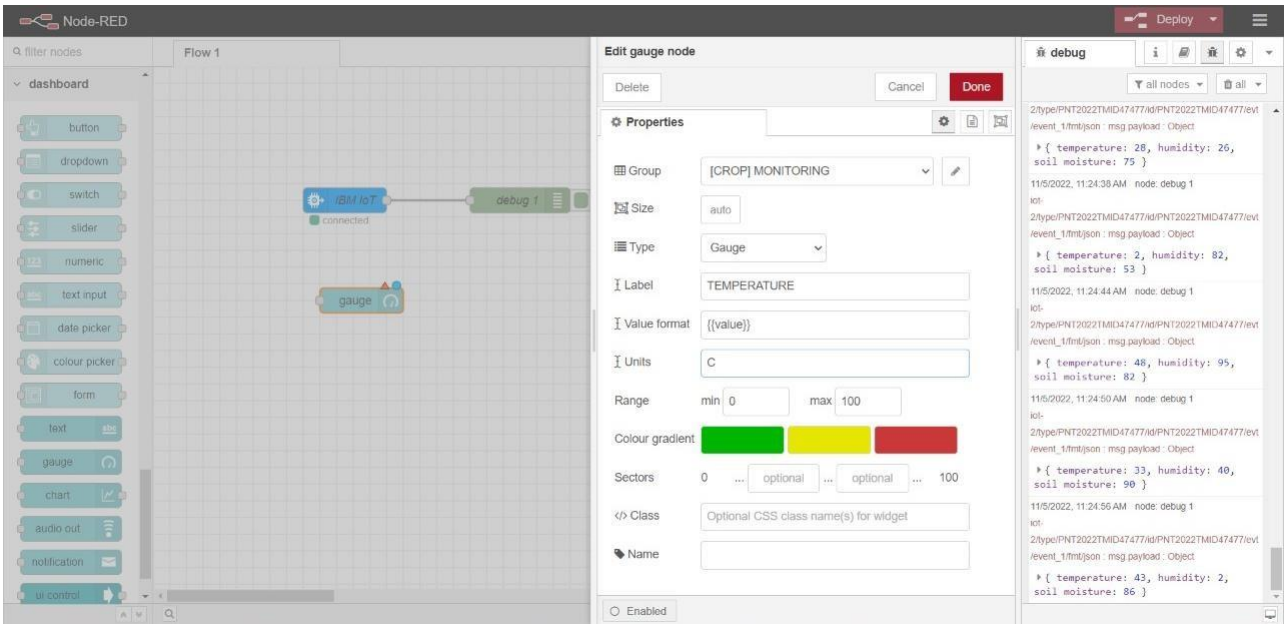


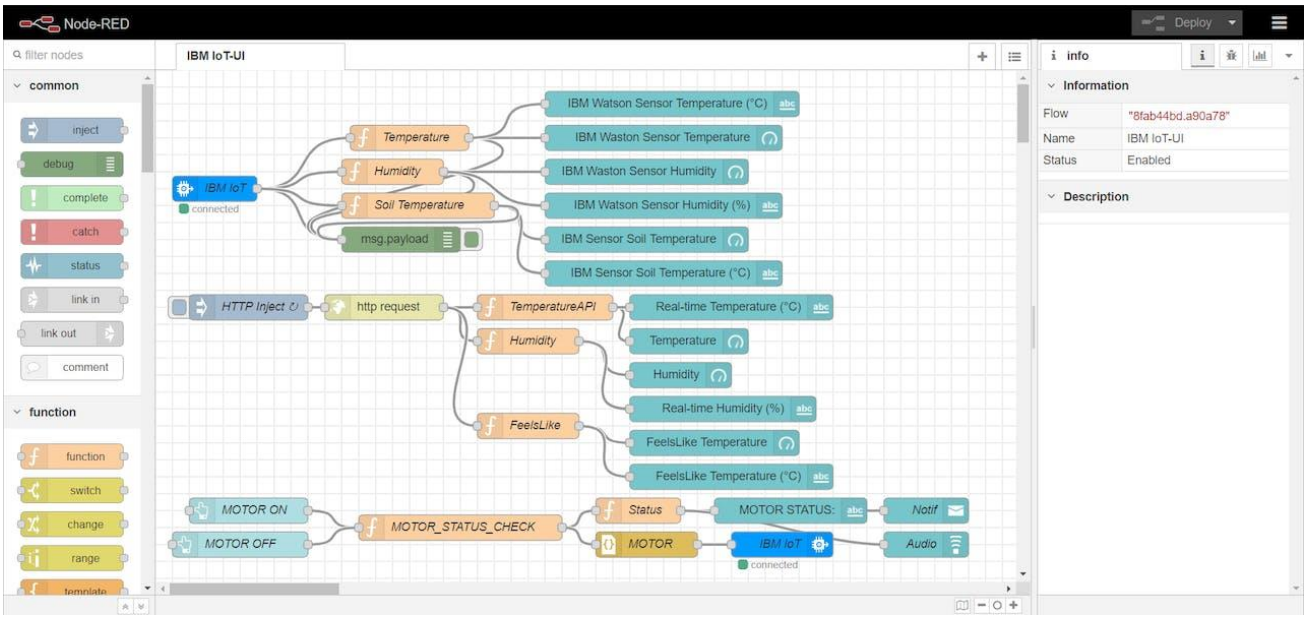
STEP 2: Connect IBM IOT in and Debug 1 and Deploy.

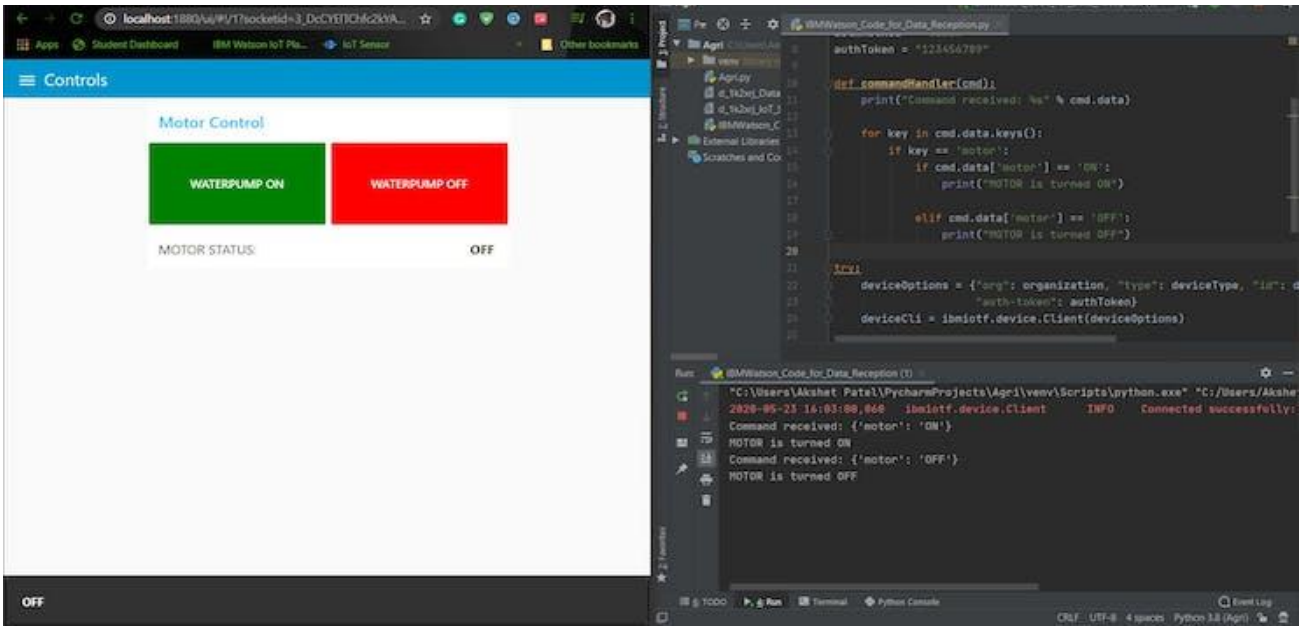


STEP 3: Edit gauge node (Here the gauge nodes are named as Temperature, Humidity and Soil moisture).






Node-RED
Deploy
filter nodes
IBM IoT-UI
common
inject
debug
complete
catch
status
link in
link out
comment
function
function
switch
change
range
template
IBM IoT
connected
Temperature
Humidity
Soil Temperature
msg.payload
IBM Watson Sensor Temperature (°C)
IBM Waston Sensor Temperature
IBM Waston Sensor Humidity
IBM Watson Sensor Humidity (%)
IBM Sensor Soil Temperature
IBM Sensor Soil Temperature (°C)
HTTP Inject
http request
TemperatureAPI
Humidity
FeelsLike
Real-time Temperature (°C)
Temperature
Humidity
Real-time Humidity (%)
FeelsLike Temperature
FeelsLike Temperature (°C)
MOTOR ON
MOTOR OFF
MOTOR_STATUS_CHECK
Status
MOTOR
MOTOR STATUS:
IBM IoT
connected
Notif
Audio
info
Information
Flow
"8fab44bd.a90a78"
Name
IBM IoT-UI
Status
Enabled
Description


Controls
Motor Control
WATERPUMP ON
WATERPUMP OFF
MOTOR STATUS:
OFF
authToken = "123456789"
def commandHandler(cmd):
print("Command received: %s" % cmd.data)
for key in cmd.data.keys():
if key == 'motor':
if cmd.data['motor'] == 'ON':
print("MOTOR is turned ON")
elif cmd.data['motor'] == 'OFF':
print("MOTOR is turned OFF")
try:
deviceOptions = {"org": organization, "type": deviceType,
"auth-token": authToken}
deviceCli = ibmiotf.device.Client(deviceOptions)
"C:\Users\Akshet Patel\PycharmProjects\Agri\venv\Scripts\python.exe" "C:/Users/Akshe
2020-05-23 16:03:00,060 ibmiotf.device.Client INFO Connected successfully:
Command received: {'motor': 'ON'}
MOTOR is turned ON
Command received: {'motor': 'OFF'}
MOTOR is turned OFF
OFF