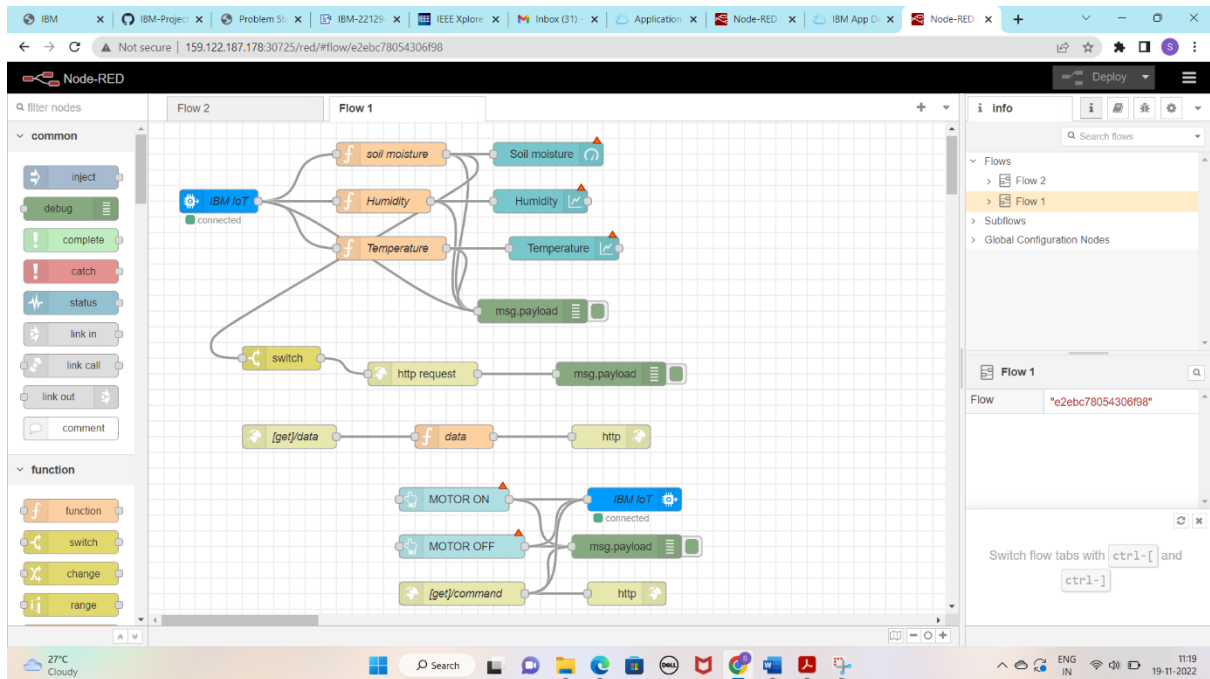


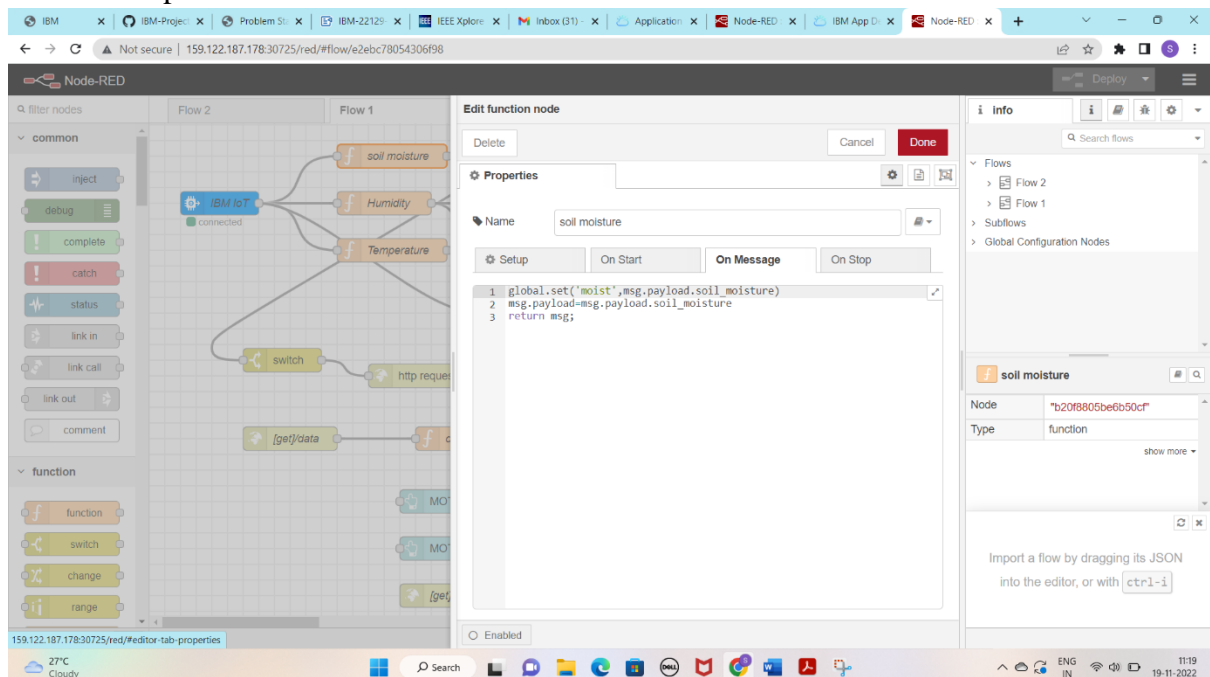
Date	19 NOVEMBER 2022
Team ID	PNT2022TMID04753
Topic	SmartFarmer - IoT Enabled Smart Farming Application

## WEB APPLICATION USING NODE-RED SERVICE

### STEP 1: Node-red service



### STEP 2: Properties of Node-red



### STEP 3: Node-red code

The screenshot shows the Node-RED web interface in a browser. The 'Edit function node' dialog is open for a node named 'data'. The 'On Message' tab is selected, and the following JavaScript code is entered in the text area:

```
1 = msg.payload;
2 "temperature":global.get('temp'),
3 "humidity":global.get('hum'),
4 "moisture":global.get('moist')
5 }
6 return msg;
```

The background shows a flow diagram with nodes for 'soil moisture', 'Humidity', 'Temperature', 'switch', 'http request', and 'data'. The 'data' node is highlighted in the flow.

### STEP 4: Enter the API Key and Input Type

The screenshot shows the Node-RED web interface in a browser. The 'Edit ibmiot in node' dialog is open for a node named 'ibmiot in'. The 'Properties' tab is selected, and the following configuration is shown:

- Authentication: API Key
- API Key: IBMiot
- Input Type: Device Event
- Device Type: All or +
- Device Id: All or device id e.g. ab12cd231a21
- Event: All or +
- Format: All or json
- QoS: 0
- Name: IBM IoT
- Service: registered

The background shows a flow diagram with nodes for 'soil moisture', 'Humidity', 'Temperature', 'switch', 'http request', 'data', 'MOTOR ON', 'MOTOR OFF', and 'command'. The 'ibmiot in' node is highlighted in the flow.