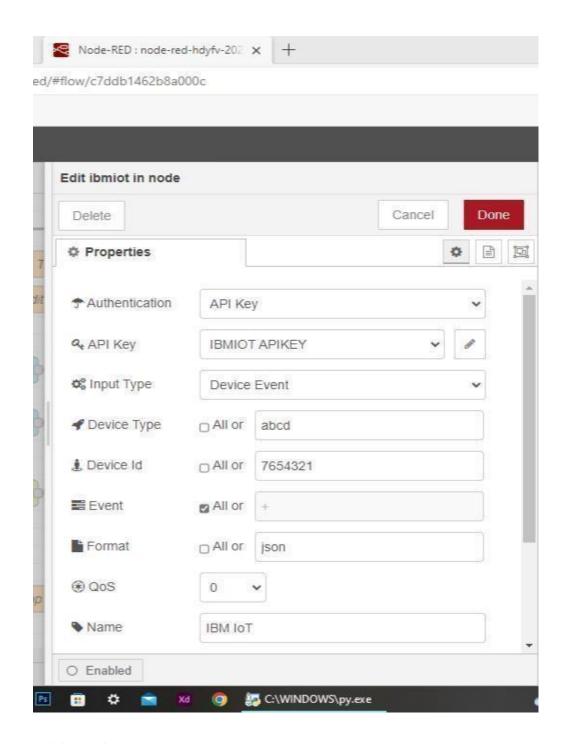
Build a Web Application Using Node-RED

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Team ID	PNT2022TMID53765
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Configuration of Node-Red to send commands to IBM cloud ibmiot out node I used to send data from Node-Red to IBM Watson device. So, after adding it to the flow we need to configure it with credentials of our Watson device.



Here we add two buttons in UI

1 -> for motor on

2 -> for motor off

We used a function node to analyses the data received and assign command to each number.

The Java script code for the analyses is:

if(msg.payload===1)

msg.payload={"command": "ON"}; else if(msg.payload===0) msg.payload={"command": "OFF"}; Then we use another function node to parse the data and get the command and represent it visually with The Java script code for that function node is: var state=msg.payload; msg.payload = state.command; return msg; Edit function node Edit function node o (6) 194 1 lf(msg.payload===1) 2 msg.payload={"command":"ON"}; else if(msg.payload===0)
msg.payload={"command":"OFF"}; 10 return msg; The above images show the java script codes of analyser and state function nodes. Then we add edit Json node to the conversion between JSON string & object and finally connect it to IBM IoT Edit json node Delete Convert between JSON String & Object msg. payload Edit JSON node needs to be configured like this Motor Switch On connected Motor Switch Off msg.payload mit app control http

This is the program flow for sending commands to IBM cloud.

Adjusting User Interface

In order to display the parsed JSON data a Node-Red dashboard is created

Here we are using Gauges, text and button nodes to display in the UI and helps to monitor the parameters and control the farm equipment.

Below images are the Gauge, text and button node configurations.

