

การสร้าง MQTT Server บน Raspberry Pi เพื่อใช้งาน Chatbot LINE ในฟาร์มอัจฉริยะ  
Chatbot LINE from Raspberry Pi MQTT Server for Smart Farming

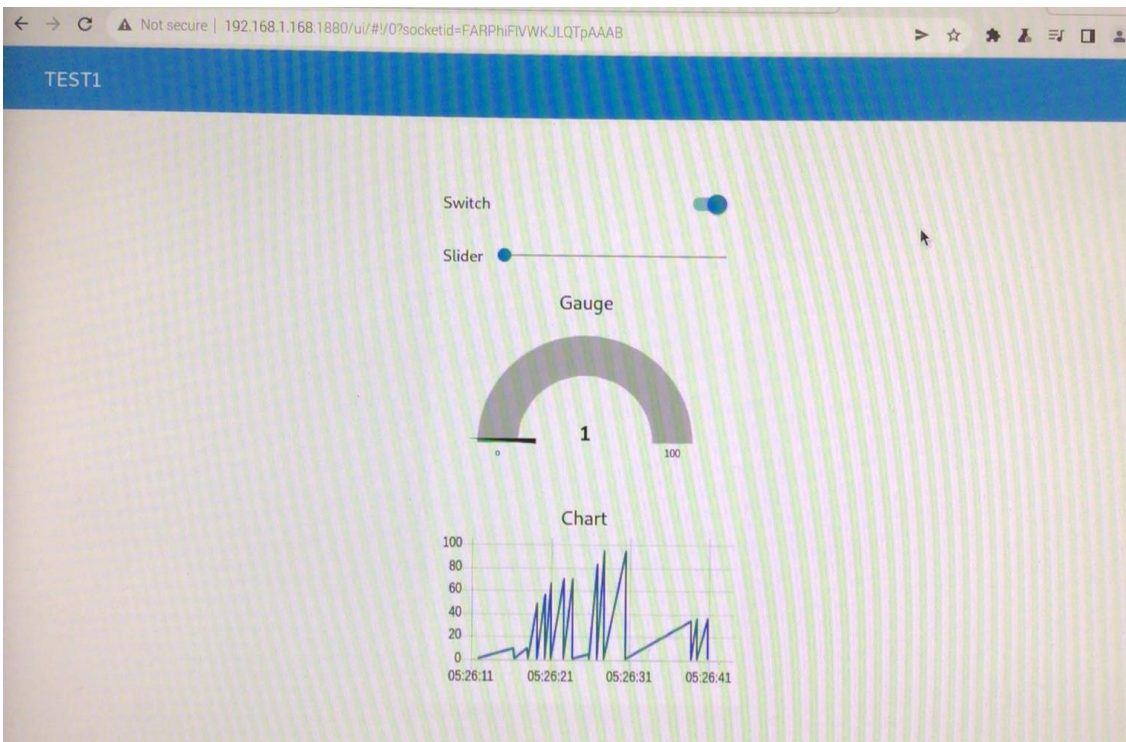
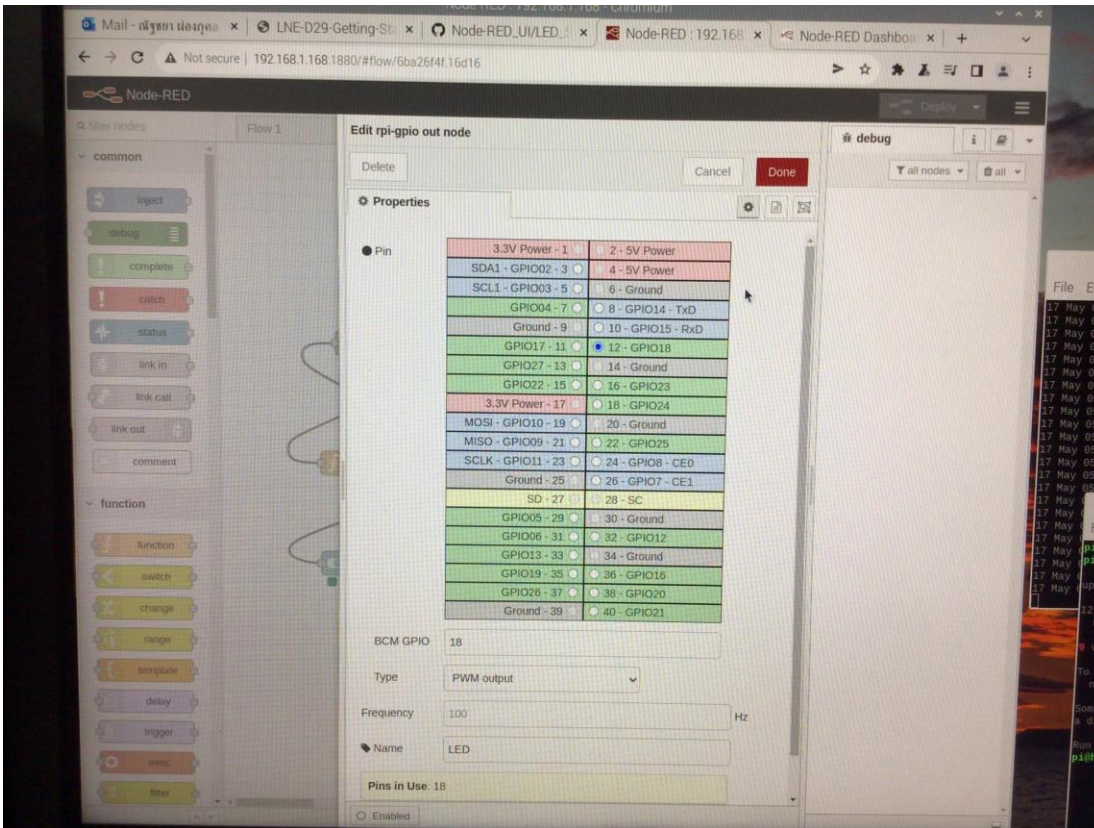
ชื่อ-สกุล : นางสาวณัฐชยา ผ่องกุล B6226718

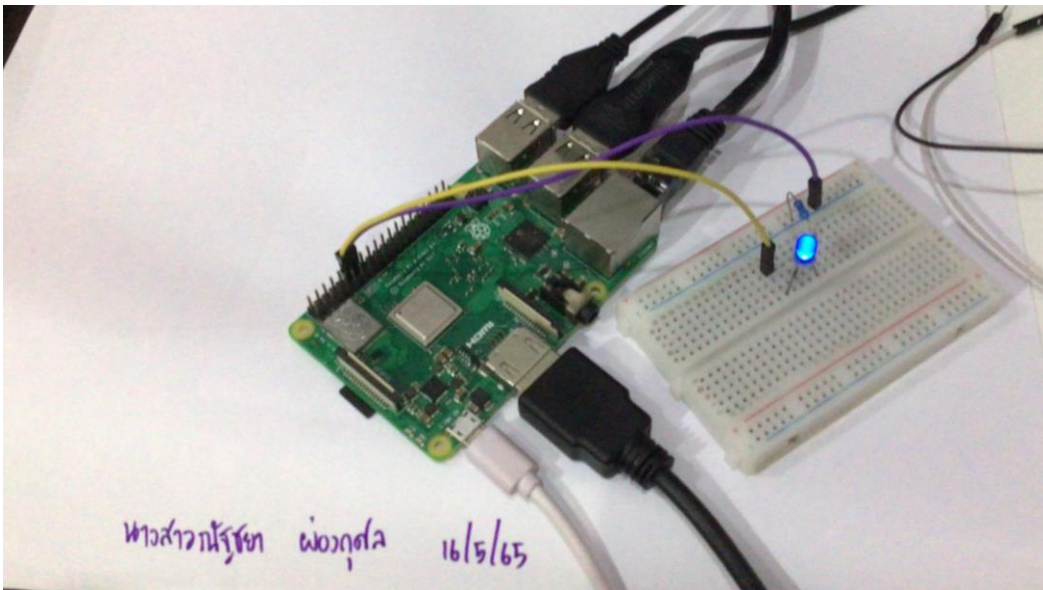
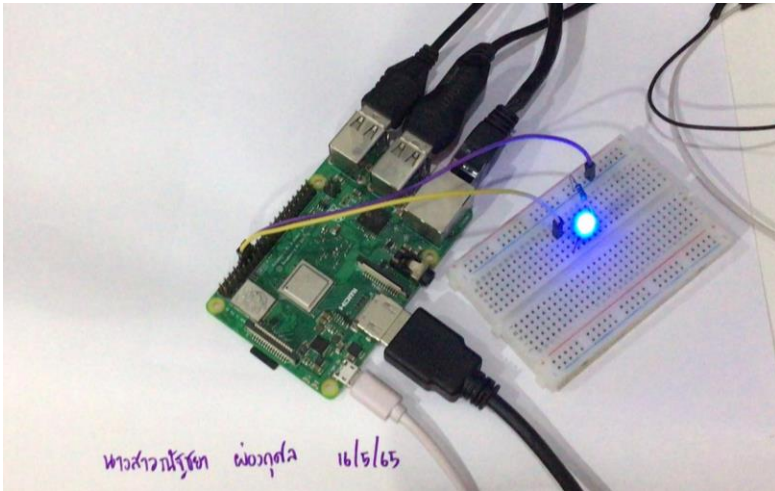
6/6 –คำถามท้ายบทเพื่อทดสอบความเข้าใจ

### Quiz\_201 – Node-RED UI

- แสดงข้อมูลที่ได้ทำการทดสอบ

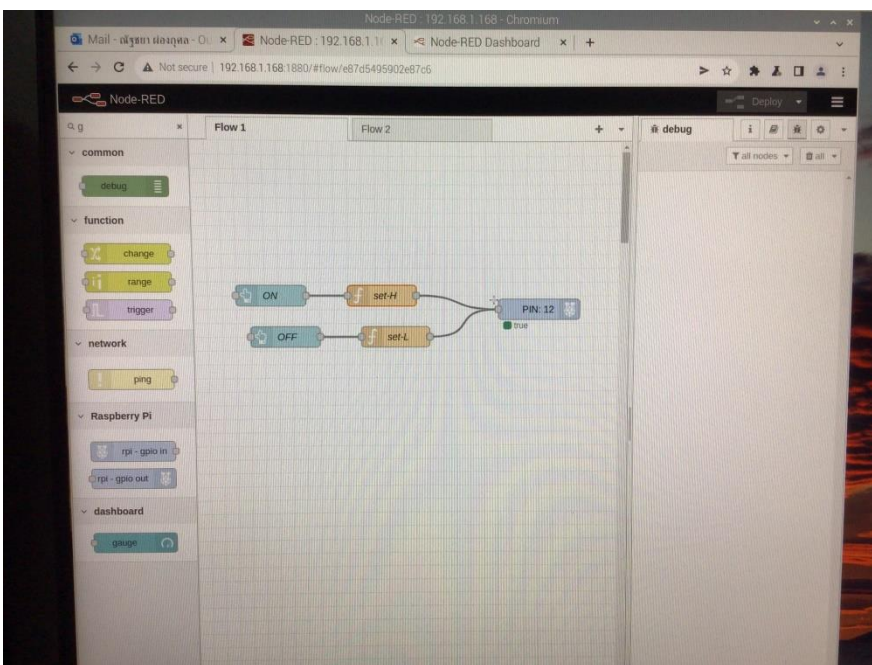
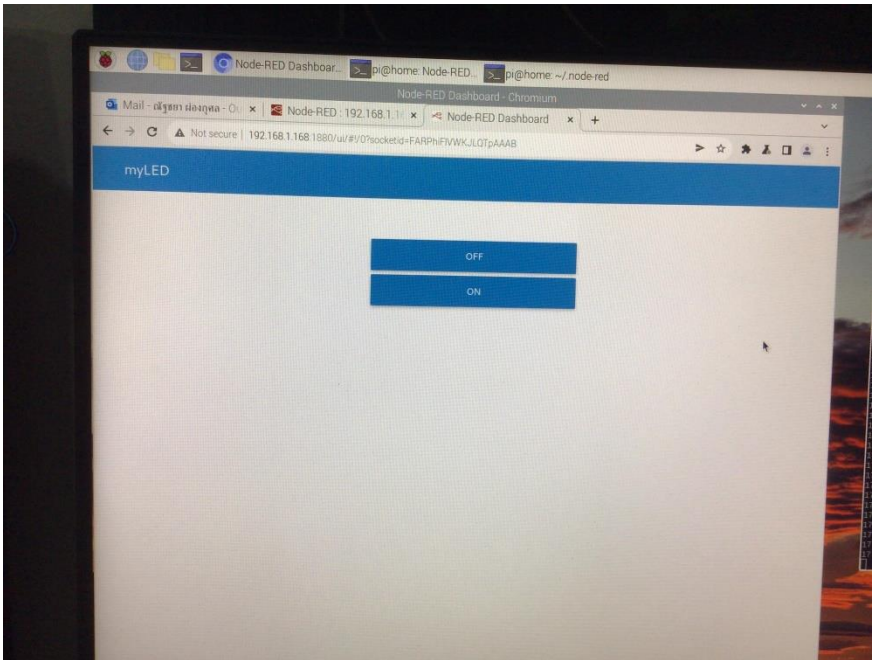
```
#import
[{"id":"b2848cd6.ca5c7","type":"ui_slider","z":"5b90197.2d300e8","tab":"5969fd52.22b424","name":
"Slider","topic":"","group":"Control
LED","order":"2","min":"0","max":"100","x":190,"y":100,"wires":[["1cca457a.60fb5b","732721f2.329
13","3c
7de1d6.58b99e","869c189f.bb8d18"]],{"id":"1cca457a.60fb5b","type":"ui_gauge","z":"5b90197.2d3
00e8","tab":"5969fd52.22b424","name":"Gauge","group":"Control
LED","order":"3","format":"{{value}}","min":0,"max":"100","x":603,"y":188,"wires":[]},{"id":"732721f
2.3291
3","type":"ui_chart","z":"5b90197.2d300e8","tab":"5969fd52.22b424","name":"","group":"Control
LED","order":"4","interpolate":"linear","nodata":"No
Data","removeOlder":1,"removeOlderUnit":"86400","x":603,"y":294,"wires":[[],[]]},{"id":"3c7de1d6.5
8b99e","type":"rpi-gpio
out","z":"5b90197.2d300e8","name":"LED","pin":"40","set":"","level":"0","out":"pwm","x":606,"y":1
10,"wi
res":[]},{"id":"828cc789.3d3b08","type":"function","z":"5b90197.2d300e8","name":"Function","func
":"if(ms g.payload == \"true\"){\n msg.payload = 1;\n}\nelse{\n msg.payload = 0;\n}\nreturn
msg;","outputs":"1","noerr":0,"x":440,"y":380,"wires":[["b2848cd6.ca5c7"]],{"id":"58638633.9de238
","type
":"ui_switch","z":"5b90197.2d300e8","tab":"5969fd52.22b424","name":"Switch","topic":"","group":"
Contro l
LED","order":1,"onvalue":"true","offvalue":"false","x":173,"y":377,"wires":[["828cc789.3d3b08"]],{"i
d":"86
9c189f.bb8d18","type":"function","z":"5b90197.2d300e8","name":"SetSwitch","func":"if(msg.payloa
d > 0)\n msg.payload = 1;\nelse \n msg.payload = 0;\n\nreturn
msg;\n","outputs":1,"noerr":0,"x":182,"y":250,"wires":[["58638633.9de238"]],{"id":"5969fd52.22b4
24","ty pe":"ui_tab","z":"","name":"TEST1","icon":"dashboard","order":"1"}}
```







เกม



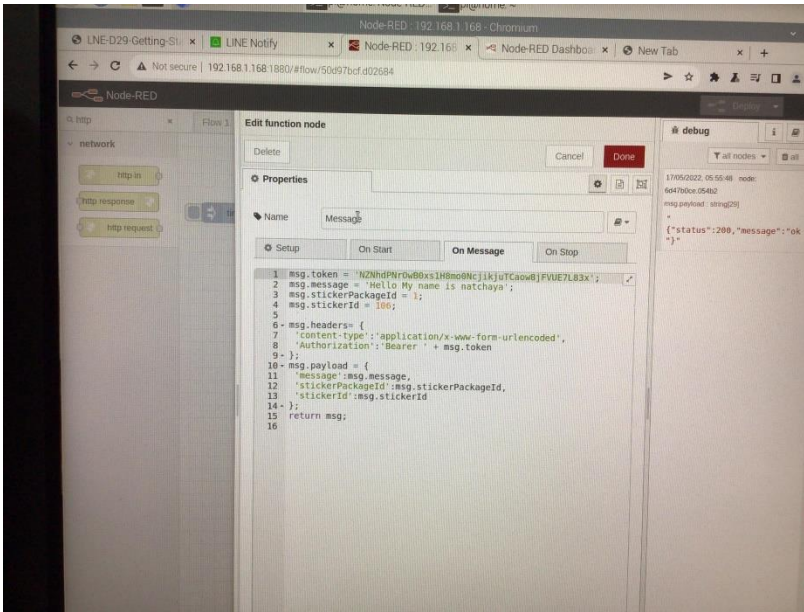
### Quiz\_202 – Node-RED to LINE notify

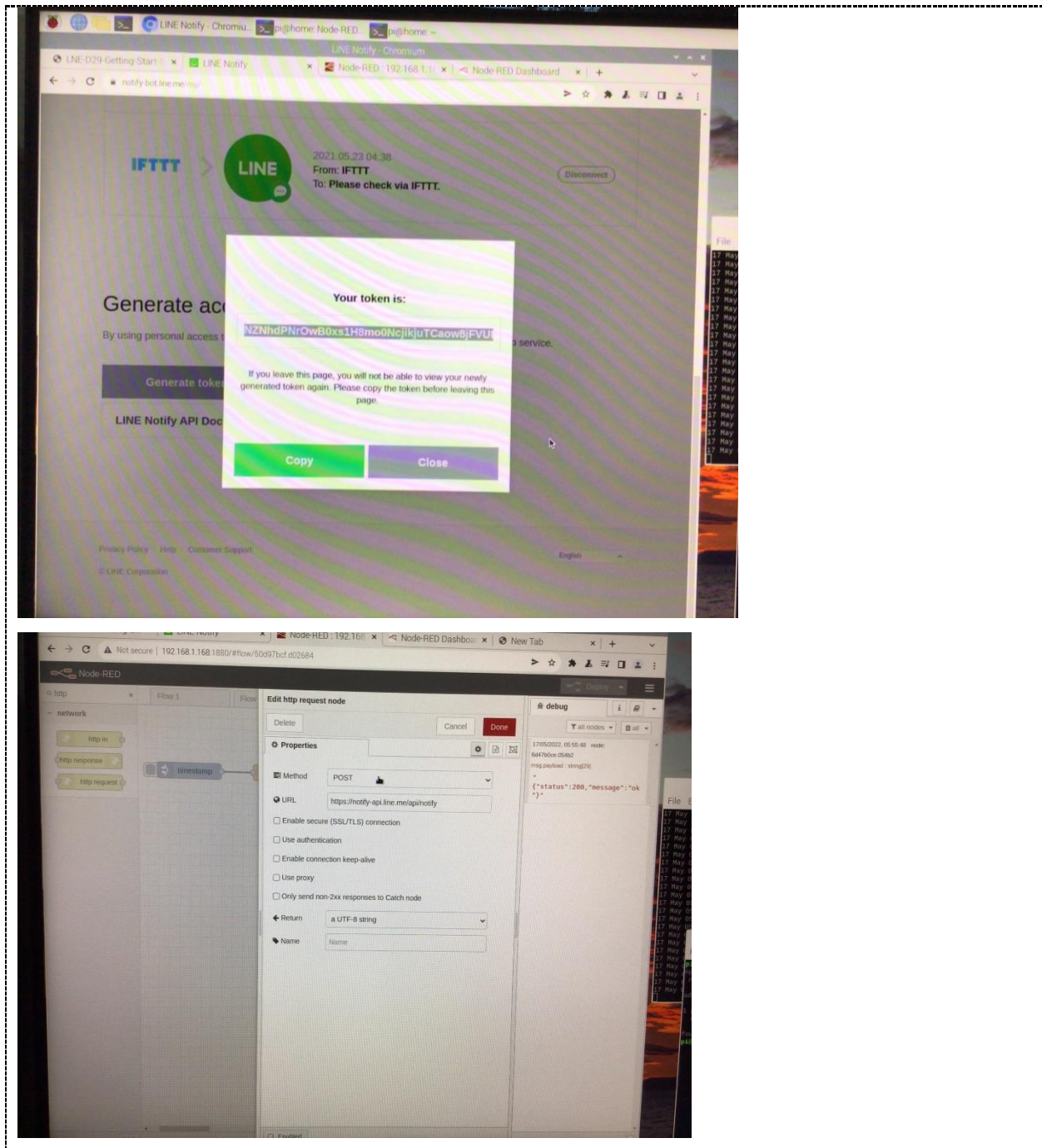
- แสดงข้อมูลที่ได้ทำการทดสอบ

```
#import
```

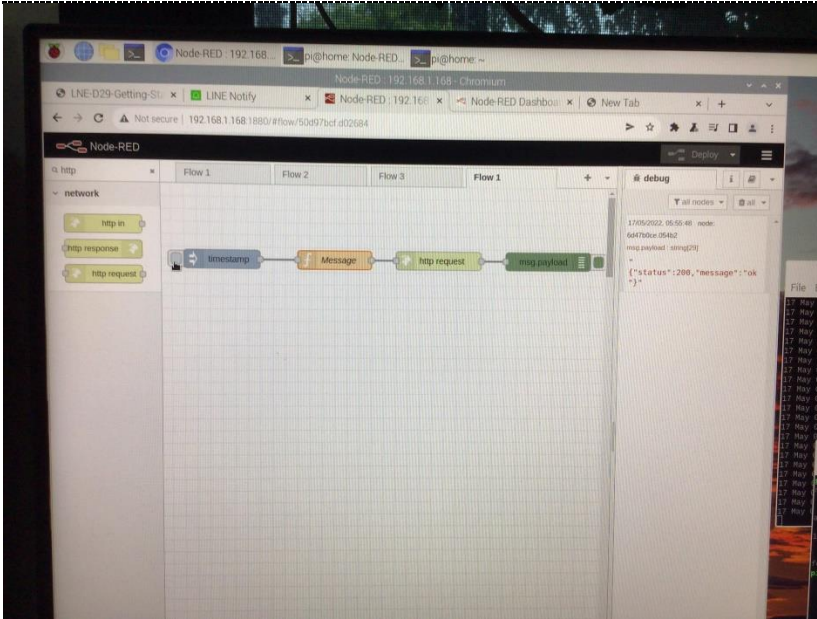
```
[{"id":"50d97bcf.d02684","type":"tab","label":"Flow 1","disabled":false,"info":""},{ "id":"8cb66889.d96b28","type":"http
```

```
request", "z": "50d97bcf.d02684", "name": "", "method": "POST", "ret": "txt", "paytoqs": "ignore", "url": "https://notify-api.line.me/api/notify", "tls": "", "persist": false, "proxy": "", "authType": "", "x": 590, "y": 120, "wires": [[["6d47b0ce.054b2"]]], {"id": "6d47b0ce.054b2", "type": "debug", "z": "50d97bcf.d02684", "name": "", "active": true, "tosidebar": true, "console": false, "tostatus": false, "complete": "payload", "statusVal": "", "statusType": "auto", "x": 770, "y": 120, "wires": []}, {"id": "51ef834a.3d95ec", "type": "function", "z": "50d97bcf.d02684", "name": "Message", "func": "msg.token = 'Your_Token_This';\nmsg.message = 'Hello';\nmsg.stickerPackageId = 1;\nmsg.stickerId = 106;\n\nmsg.headers = {\n  'content-type': 'application/x-www-form-urlencoded',\n  'Authorization': 'Bearer ' + msg.token\n};\nmsg.payload = {\n  'message': msg.message,\n  'stickerPackageId': msg.stickerPackageId,\n  'stickerId': msg.stickerId\n};\nreturn msg;\n", "outputs": 1, "noerr": 0, "initialize": "", "finalize": "", "libs": [], "x": 420, "y": 120, "wires": [[["8cb66889.d96b28"]]], {"id": "75e765f7.d089fc", "type": "inject", "z": "50d97bcf.d02684", "name": "", "props": [{"p": "payload"}, {"p": "topic", "vt": "str"}], "repeat": "", "crontab": "", "once": false, "onceDelay": 0.1, "topic": "", "payload": "", "payloadType": "date", "x": 240, "y": 120, "wires": [[["51ef834a.3d95ec"]]]}]}
```







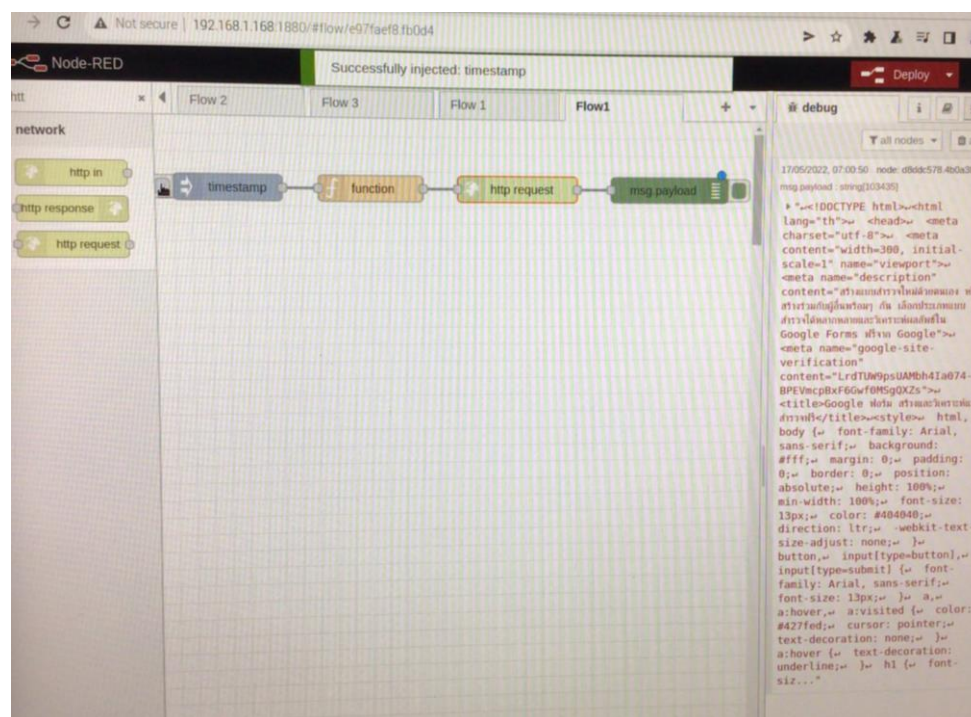


## Quiz\_203 – Node-RED to Google Sheet

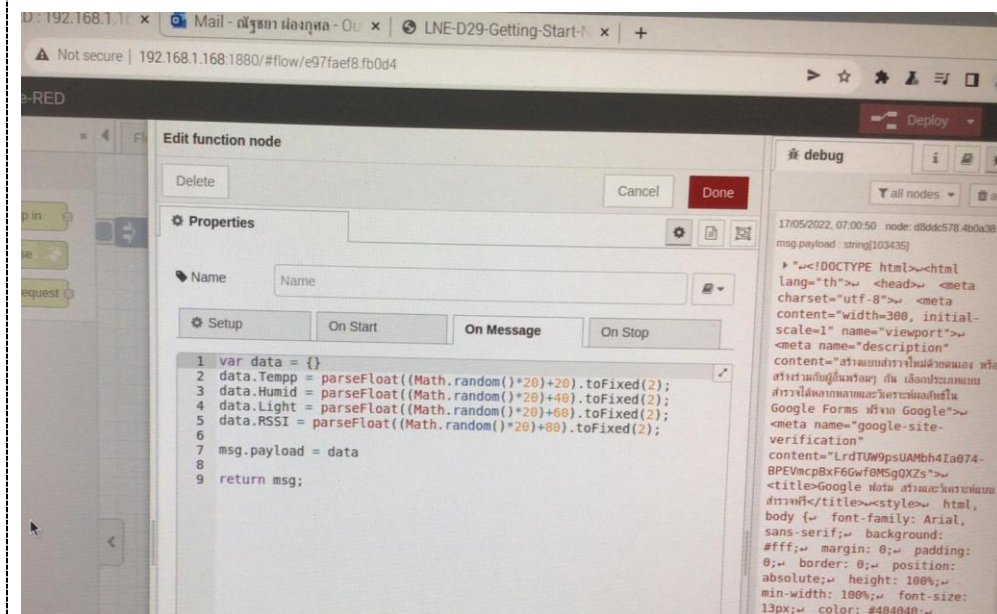
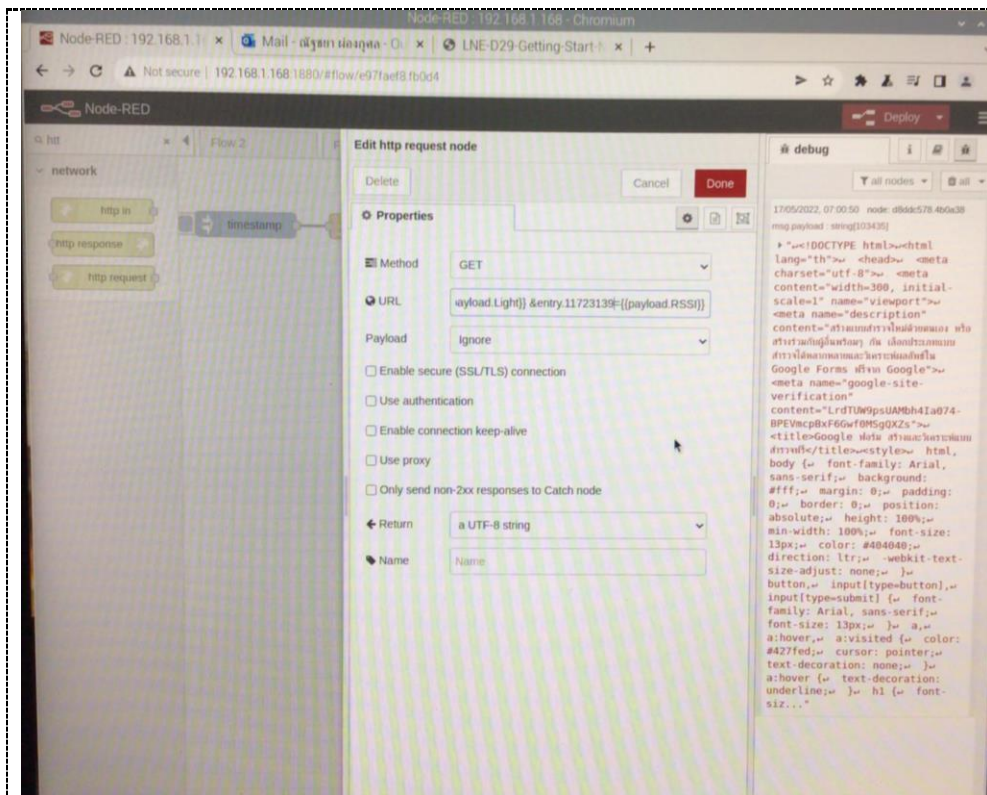
- แสดงข้อมูลที่ทำการทดสอบ

```
#import
```

```
{
  "id": "e97faef8.fb0d4",
  "type": "tab",
  "label": "Flow 1",
  "disabled": false,
  "info": "",
  "id": "f9532ea8.463cf",
  "type": "inject",
  "z": "e97faef8.fb0d4",
  "name": "",
  "props": [
    {
      "p": "payload"
    },
    {
      "p": "topic"
    }
  ],
  "vt": "str",
  "repeat": "",
  "crontab": "",
  "once": false,
  "onceDelay": 0.1,
  "topic": "",
  "payload": "",
  "payloadType": "date",
  "x": 220,
  "y": 80,
  "wires": [
    [
      "9baf4a75.a30408"
    ]
  ],
  "id": "d8ddc578.4b0a38",
  "type": "debug",
  "z": "e97faef8.fb0d4",
  "name": "",
  "active": true,
  "tosidebar": true,
  "console": false,
  "tostatus": false,
  "complete": "false",
  "statusVal": "",
  "statusType": "auto",
  "x": 730,
  "y": 80,
  "wires": [
    [
      "9baf4a75.a30408"
    ]
  ],
  "type": "function",
  "z": "e97faef8.fb0d4",
  "name": "",
  "func": "var data = {}\\n\\ndata.Tempp = parseFloat((Math.random()*20)+20).toFixed(2);\\n\\ndata.Humid = parseFloat((Math.random()*20)+40).toFixed(2);\\n\\ndata.Light = parseFloat((Math.random()*20)+60).toFixed(2);\\n\\ndata.RSSI = parseFloat((Math.random()*20)+80).toFixed(2);\\n\\nmsg.payload = data\\n\\nreturn msg;";
  "outputs": 1,
  "noerr": 0,
  "initialize": "",
  "finalize": "",
  "libs": [],
  "x": 380,
  "y": 80,
  "wires": [
    [
      "9e20f292.3b6f4"
    ]
  ],
  "id": "9e20f292.3b6f4",
  "type": "http request",
  "z": "e97faef8.fb0d4",
  "name": "",
  "method": "GET",
  "ret": "txt",
  "paytoqs": "ignore",
  "url": "https://docs.google.com/forms/u/0/d/1FAIpQLSfMbbUeoFhfNVBb4N4DnW7DixLDVqI5axwMEXbnI9C3NrRhyg/formResponse?entry.1430118170={{payload.Tempp}}&entry.1239562869={{payload.Humid}}&entry.135041538={{payload.RSSI}}",
  "tls": "",
  "persist": false,
  "proxy": "",
  "authType": "",
  "x": 550,
  "y": 80,
  "wires": [
    [
      "d8ddc578.4b0a38"
    ]
  ]
}
```







← → ↺ docs.google.com/forms/d/1cfngBfk1ZHuQ\_IAo33FU5ov0vrfHY9ih8j1mvwr-t0o/edit#responses

Untitled form ☆ All changes saved in Drive

Questions **Responses 3** Settings

3 responses

Accepting responses ☒

Summary Question Individual

Temperature(C)

3 responses

26

11

12

Humidity(%)

3 responses

88

[illegible]

