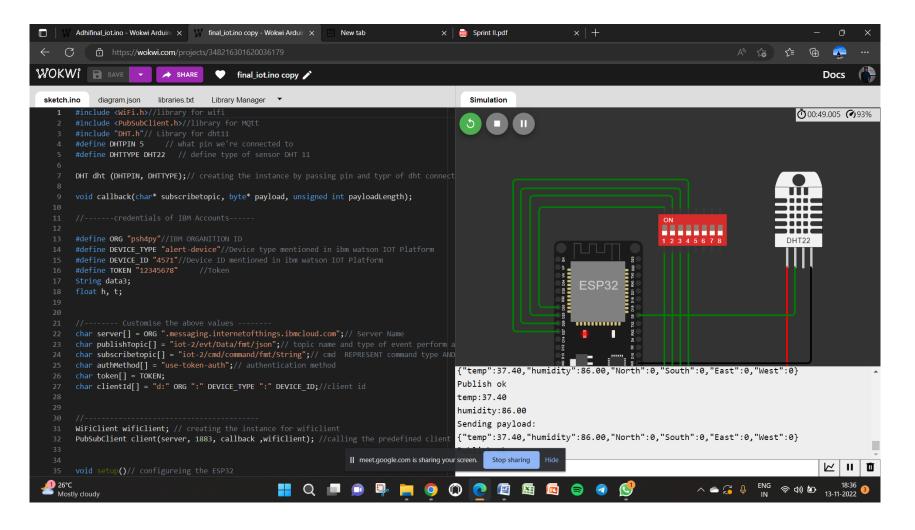
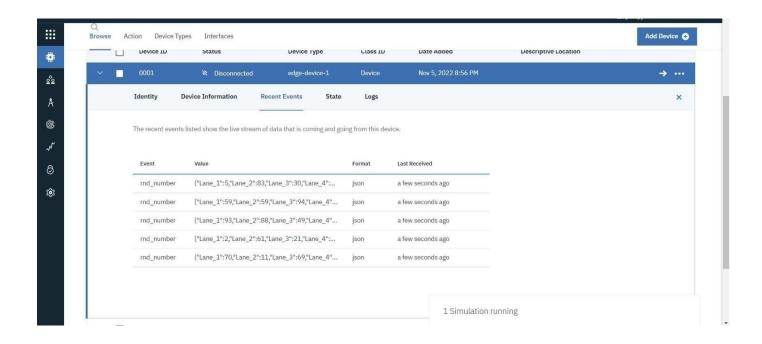
Project Development Phase Sprint-3: MIT App Design and Testing

Date	7 November 2022
PNT2022TMID00922	PNT2022TMID00922
Project Name	Project – Signs with Smart Connectivity for Better Road Safety
Maximum Marks	8 Marks

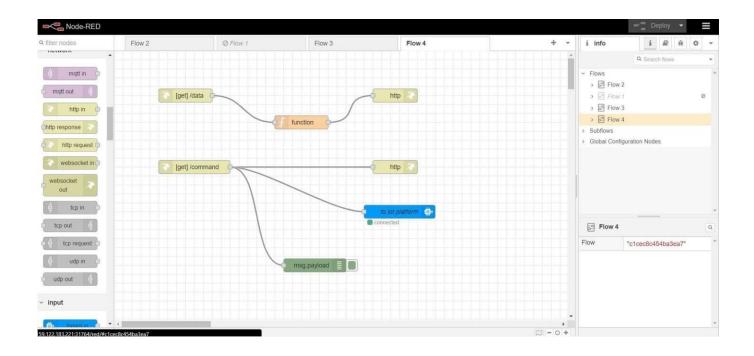
Wokwi Simulation: https://wokwi.com/projects/348216301620036179



IoT Device - IoT Platform



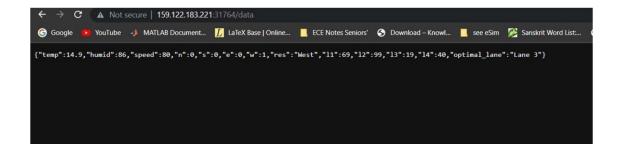
Node Red – Connect with MIT Applnventor



Edit function node

Cancel Delete O Properties 'g. Name Name On Start O Setup On Message On Stop msg. payload = { "temp" :globa1. get("temp"), "humid":global.get("humid"), "speed":global.get("speed"), "n":global.get("n"),
"s":g1obal.get("s"), S 6 "e":global.get("e"),
"w":global.get("w"),
"res":global.get("res"),
"11":global.get("I1"), 8 g 16 "12": global.get("12") tt 12 "13":globa1.get("13"), "14":glOba1.get("14"), 13 "optimal I ane" :global .get("optimal Jane") t4 15 16' }; 17 ig return msg;

Output from Node red:



MIT App Inventor UI design:



MIT App Inventor Backend design:

```
when Clock1 . Timer
do set (Web) . Units to http://159.122.183.221:31764/data
   call (Web11 .Get
when Webit .GotText
url responseCode responseType responseContent
do set (temp_data . Text ) to kook up in pairs key temp 1
                                        pairs call (Web) JsonTextDecode
                                                                 jsonText | get responseContent -
                                     notFound 1 1 2 1
   pairs call (Web112) .JsonTextDecode
                                                                  jsonText | get responseContent +
                                                .0.
   set speed data . Texter to look up in pairs key speed
                                         pairs call Web11 JsonTextDecode
                                      notFound | " | "
   set direction data . Texter to look up in pairs key res
                                           pairs call (Web1 JsonTextDecode
                                                                   jsonText get responseContent •
   set optillane data . Text to look up in pairs key optimal ane
                                           pairs call Web11 JsonTextDecode
                                                                    jsonText | get responseContent *
                                        notFound ** **
   set (lane_data . Text . to ( 0 join ( look up in pairs key ) 11
                                               pairs call Web1 JsonTextDecode
                                                                         jsonText get responseContent -
                                             look up in pairs key 📜 * [2] *
                                              pairs call (Web1111) .JsonTextDecode
                                                                         jsonText get responseContent ·
                                             notFound ** **
                                      . .
                                     look up in pairs key 🔭 🔞 "
                                              pairs call (Web1 JsonTextDecode
                                                                         jsonText get responseContent •
                                             notFound * * *
                                      ...
                                     look up in pairs key 🔭 * [4] *
                                                pairs call (Web187 .JsonTextDecode
                                             notFound * * •
```

Sprint 3 delivery:

(OUTPUT) Display from MIT App:

