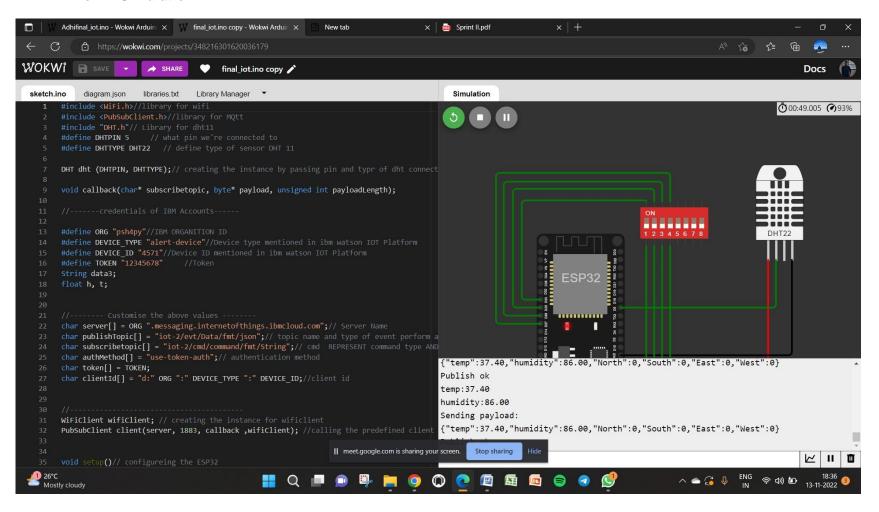
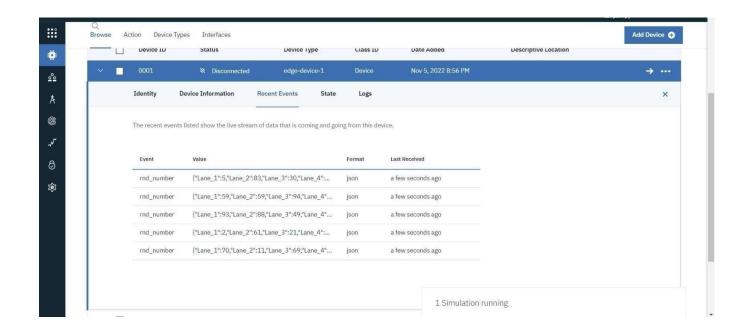
# Project Development Phase Sprint-3: MIT App Design and Testing

Date	7 November 2022
Team id	PNT2022TMID39519
Project Name	Project – Signs with Smart Connectivity for Better Road Safety
Maximum Marks	8 Marks

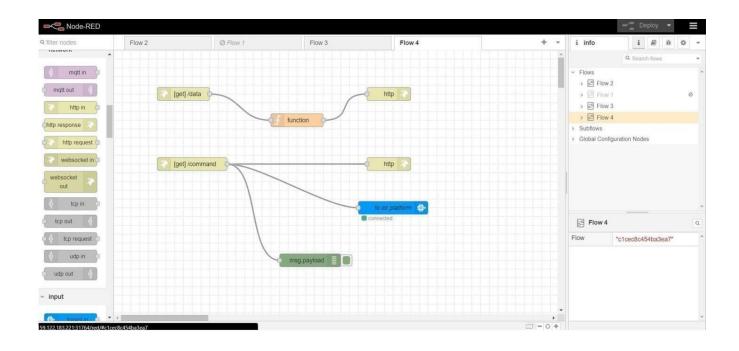
#### **Wokwi Simulation**



#### IoT Device - IoT Platform



## Node Red – Connect with MIT Applnventor



#### Edit function node

Cancel Delete O Properties 'g. Name Name O Setup On Start On Message On Stop msg. payload = { "temp" :globa1. get ( "temp" ), "humid":global.get("humid"), "speed":global.get("speed"), р "n":global.get ("n"),
"s":global.get ("s"),
"e":global.get ("e"),
"w":global.get ("w"), "res": global.get(" res"), 16 "11": globa1. get ( "l1 "), "12": global.get("12") tt "13 " : globa1. get( "13 "), 12 "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 Web1 GotText
url responseCode responseType responseContent
do set (temp_data . Text to to look up in pairs key temp *
                                         pairs call Webler .JsonTextDecode
                                                                  jsonText | get responseContent +
                                      notFound * * *
   set (humb data . (lexter to look up in pairs key humb)
                                         pairs call (Web) ... JsonTextDecode
                                                                   jsonText get responseContent •
                                      set speed data . Text to book up in pairs key speed
                                          pairs call Web11 JsonTextDecode
                                                                  jsonText | get responseContent +
                                       set direction data . Text to look up in pairs key res
                                           pairs call Web1 JsonTextDecode
                                                                    jsonText get responseContent •
                                        notFound " " "
   set opti_lane_data . Text to look up in pairs key optimal_lane
                                            pairs call Web1100 JsonTextDecode
                                                                     jsonText | get responseContent *
                                         set (ane data . Text . to ( ) join ( look up in pairs key ) 111
                                                 pairs call Web11 JsonTextDecode
                                                                          jsonText | get responseContent *
                                              look up in pairs key 🖟 🔞 "
                                               pairs call Web1 JsonTextDecode
                                                                          jsonText get responseContent •
                                              notFound * * *
                                      look up in pairs key (13)*
pairs call (Web1 Jon JsonTextDecode
                                                                          jsonText | get responseContent -
                                              notFound * * *
                                       . .
                                     look up in pairs key 1 (4)
                                               pairs call (Web182) .JsonTextDecode
                                                                          jsonText | get responseContent •
                                              notFound * * *
```

# **Sprint 3 delivery:**

# (OUTPUT) Display from MIT App:

