GOVERNMENT COLLEGE OF ENGINEERING

CHETTIKARAI, DHARMAPURI

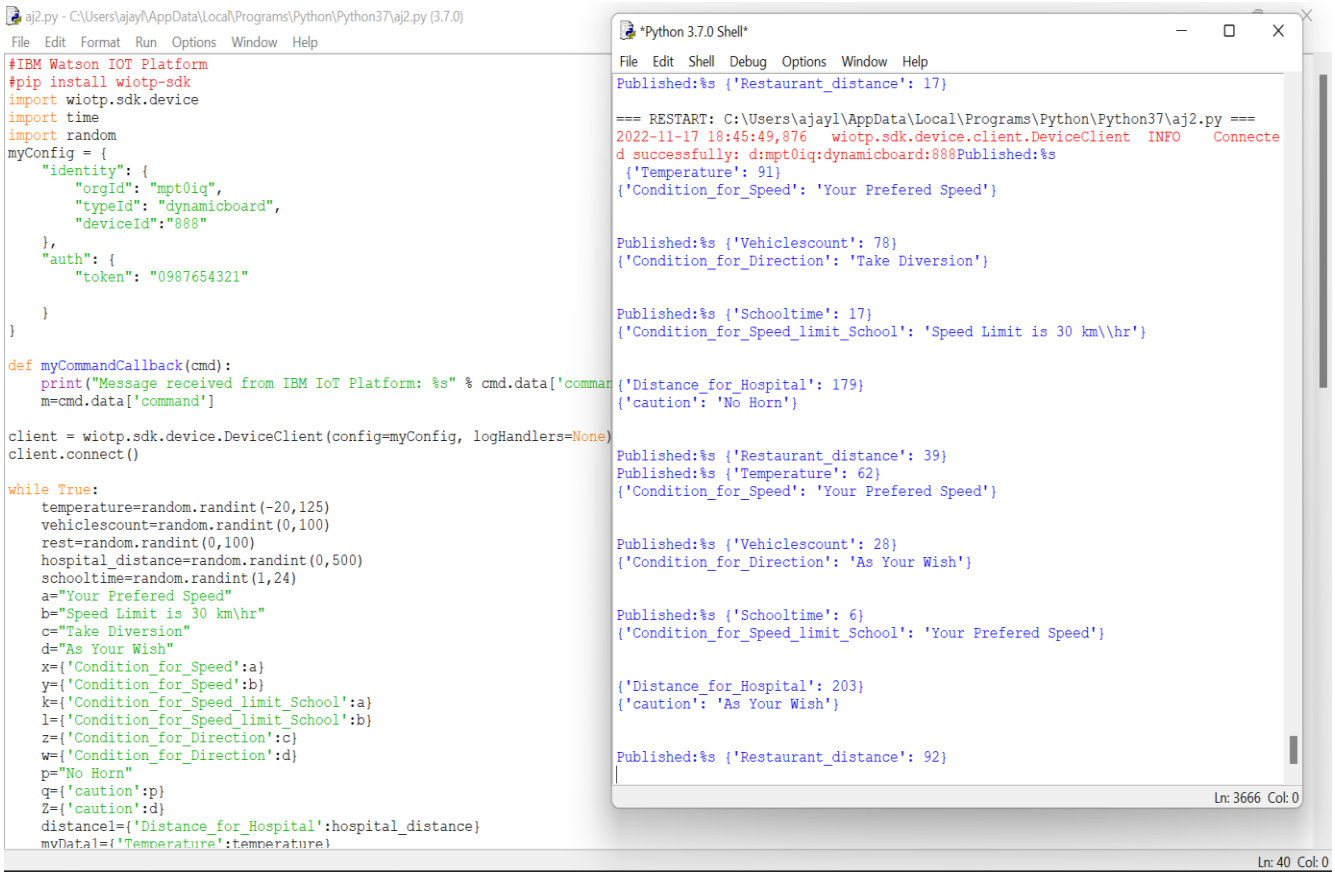
Signs with Smart Connectivity For Better Road Safety

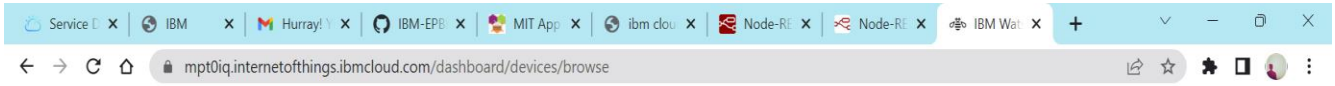
IBM NALAYATHIRAN

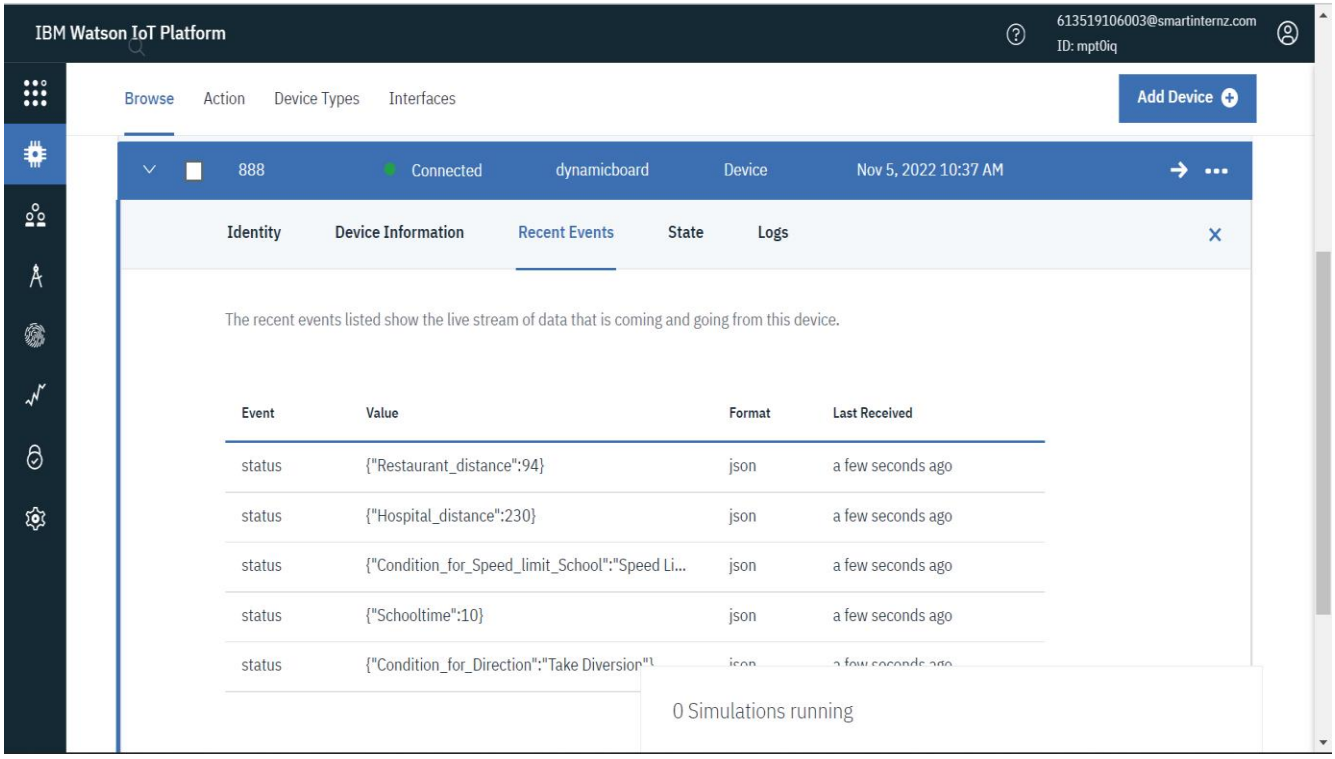
Project Development – Delivery of sprint 4

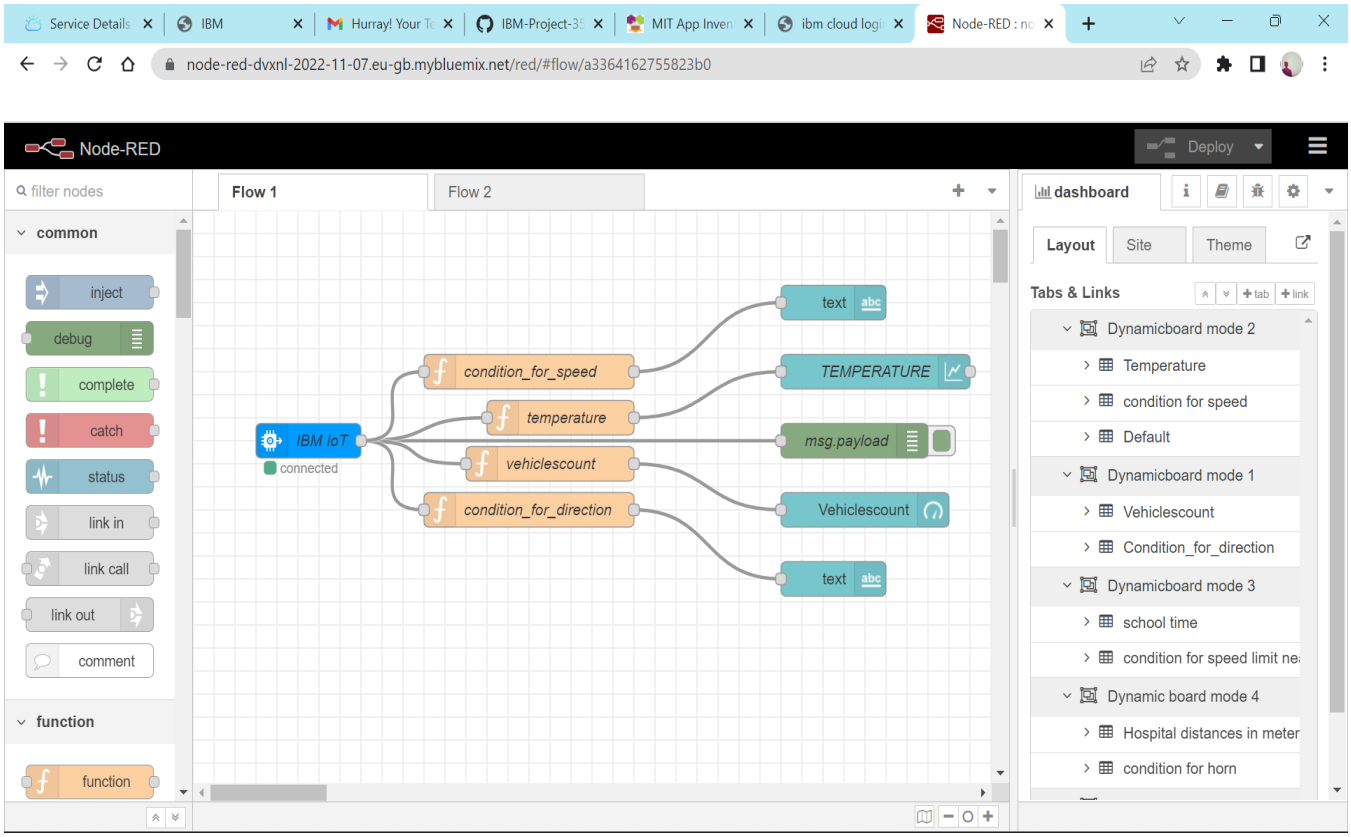
Connecting and configuring the services and debugging the errors

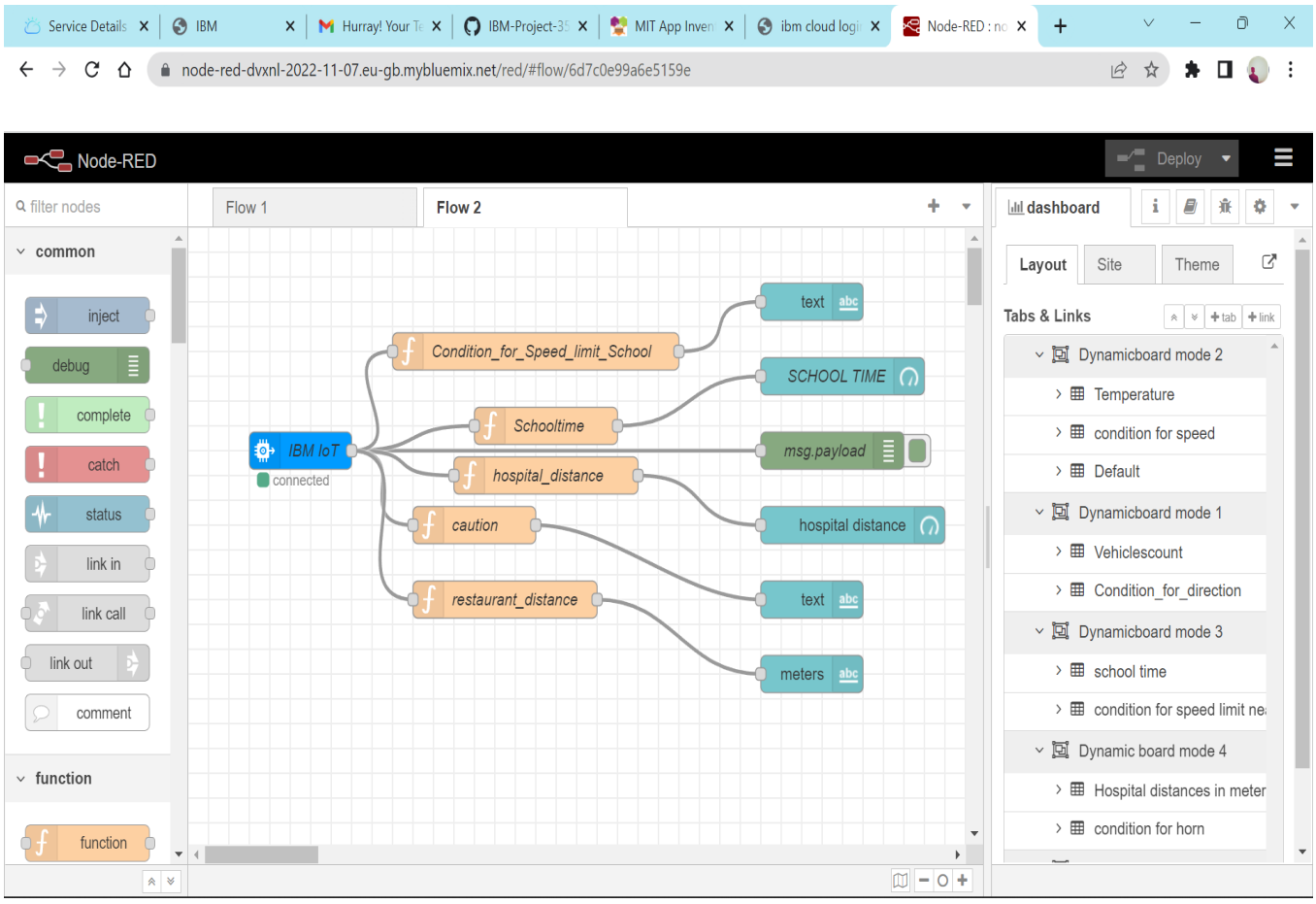
TITLE	Signs with Smart Connectivity for Better Road Safety
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID41261
TEAM LEADER NAME	AJAYSEKAR C
TEAM MEMBER NAME	AAKASH A DOURMILKUMAR G DHIVAGAR K
MENTOR NAME	Dr. DINESH G


aj2.py - C:\Users\ajayl\AppData\Local\Programs\Python\Python37\aj2.py (3.7.0)
File Edit Format Run Options Window Help
#IBM Watson IOT Platform
#pip install wiotp-sdk
import wiotp.sdk.device
import time
import random
myConfig = {
"identity": {
"orgId": "mpt0iq",
"typeId": "dynamicboard",
"deviceId":"888"
},
"auth": {
"token": "0987654321"
}
}
def myCommandCallback(cmd):
print("Message received from IBM IoT Platform: %s" % cmd.data['comman
m=cmd.data['command']
client = wiotp.sdk.device.DeviceClient(config=myConfig, logHandlers=None)
client.connect()
while True:
temperature=random.randint(-20,125)
vehiclescount=random.randint(0,100)
rest=random.randint(0,100)
hospital_distance=random.randint(0,500)
schooltime=random.randint(1,24)
a="Your Prefered Speed"
b="Speed Limit is 30 km\hr"
c="Take Diversion"
d="As Your Wish"
x={'Condition_for_Speed':a}
y={'Condition_for_Speed':b}
k={'Condition_for_Speed_limit_School':a}
l={'Condition_for_Speed_limit_School':b}
z={'Condition_for_Direction':c}
w={'Condition_for_Direction':d}
p="No Horn"
q={'caution':p}
Z={'caution':d}
distance1={'Distance_for_Hospital':hospital_distance}
Ln: 40 Col: 0
Python 3.7.0 Shell
File Edit Shell Debug Options Window Help
Published:%s {'Restaurant_distance': 17}
=== RESTART: C:\Users\ajayl\AppData\Local\Programs\Python\Python37\aj2.py ===
2022-11-17 18:45:49,876 wiotp.sdk.device.client.DeviceClient INFO Connecte
d successfully: d:mpt0iq:dynamicboard:888Published:%s
{'Temperature': 91}
{'Condition_for_Speed': 'Your Prefered Speed'}
Published:%s {'Vehiclescount': 78}
{'Condition_for_Direction': 'Take Diversion'}
Published:%s {'Schooltime': 17}
{'Condition_for_Speed_limit_School': 'Speed Limit is 30 km\\hr'}
{'Distance_for_Hospital': 179}
{'caution': 'No Horn'}
Published:%s {'Restaurant_distance': 39}
Published:%s {'Temperature': 62}
{'Condition_for_Speed': 'Your Prefered Speed'}
Published:%s {'Vehiclescount': 28}
{'Condition_for_Direction': 'As Your Wish'}
Published:%s {'Schooltime': 6}
{'Condition_for_Speed_limit_School': 'Your Prefered Speed'}
{'Distance_for_Hospital': 203}
{'caution': 'As Your Wish'}
Published:%s {'Restaurant_distance': 92}
Ln: 3666 Col: 0


mpt0iq.internetofthings.ibmcloud.com/dashboard/devices/browse


IBM Watson IoT Platform
613519106003@smartinternz.com
ID: mpt0iq
Browse
Action
Device Types
Interfaces
Add Device
888
Connected
dynamicboard
Device
Nov 5, 2022 10:37 AM
Identity
Device Information
Recent Events
State
Logs
The recent events listed show the live stream of data that is coming and going from this device.
Event
Value
Format
Last Received
status
{"Restaurant_distance":94}
json
a few seconds ago
status
{"Hospital_distance":230}
json
a few seconds ago
status
{"Condition_for_Speed_limit_School":"Speed Li...
json
a few seconds ago
status
{"Schooltime":10}
json
a few seconds ago
status
{"Condition_for_Direction":"Take Diversion"}
0 Simulations running


Service Details
IBM
Hurray! Your Te
IBM-Project-35
MIT App Inven
ibm cloud logi
Node-RED : no
node-red-dvxnl-2022-11-07.eu-gb.mybluemix.net/red/#flow/a3364162755823b0
Node-RED
Deploy
filter nodes
Flow 1
Flow 2
common
inject
debug
complete
catch
status
link in
link call
link out
comment
function
function
IBM IoT
connected
condition_for_speed
temperature
vehiclescount
condition_for_direction
text
TEMPERATURE
msg.payload
Vehiclescount
text
dashboard
Layout
Site
Theme
Tabs & Links
tab
link
Dynamicboard mode 2
Temperature
condition for speed
Default
Dynamicboard mode 1
Vehiclescount
Condition_for_direction
Dynamicboard mode 3
school time
condition for speed limit nea
Dynamic board mode 4
Hospital distances in meter
condition for horn


Service Details
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Hurray! Your Te
IBM-Project-35
MIT App Inven
ibm cloud logi
Node-RED : no
node-red-dvxnl-2022-11-07.eu-gb.mybluemix.net/red/#flow/6d7c0e99a6e5159e
Node-RED
Deploy
filter nodes
Flow 1
Flow 2
common
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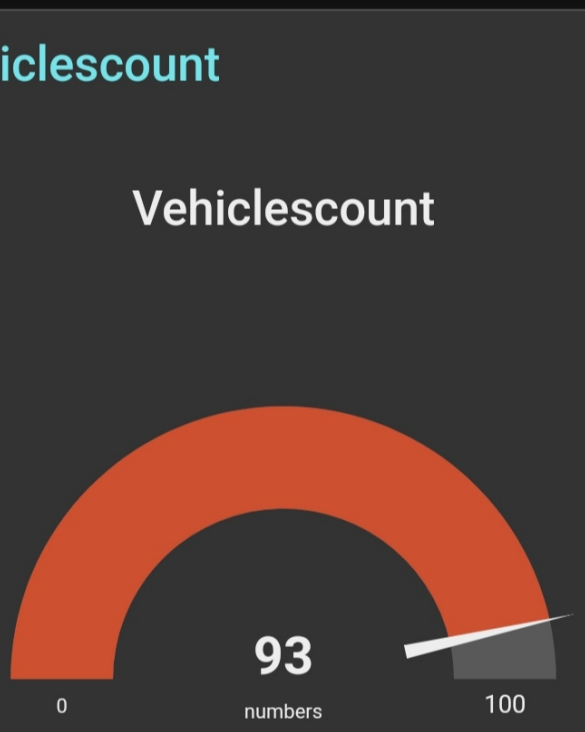
catch
status
link in
link call
link out
comment
function
function
IBM IoT
connected
Condition_for_Speed_limit_School
Schooltime
hospital_distance
caution
restaurant_distance
text
SCHOOL TIME
msg.payload
hospital distance
text
meters
dashboard
Layout
Site
Theme
Tabs & Links
tab
link
Dynamicboard mode 2
Temperature
condition for speed
Default
Dynamicboard mode 1
Vehiclescount
Condition_for_direction
Dynamicboard mode 3
school time
condition for speed limit nea
Dynamic board mode 4
Hospital distances in meter
condition for horn

Dynamicboard mode 1

Vehiclescount

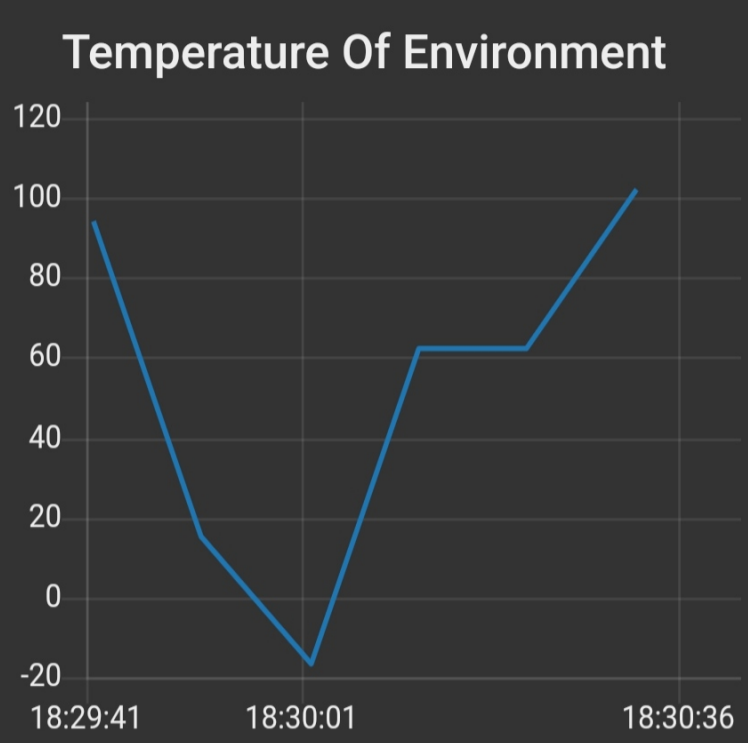


Condition_for_direction

Take Diversion

Dynamicboard mode 2

Temperature



condition for speed

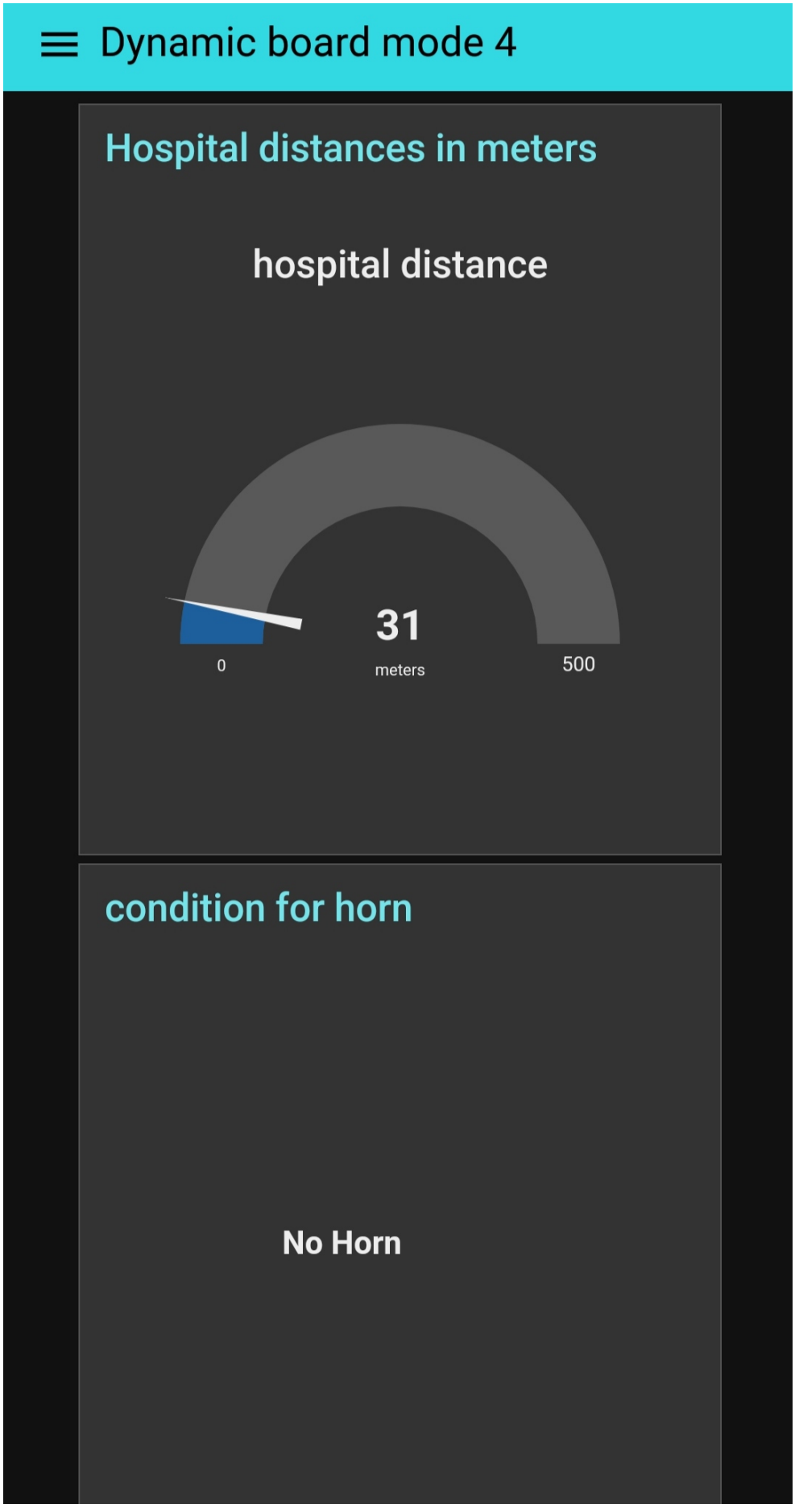
Your Prefered Speed

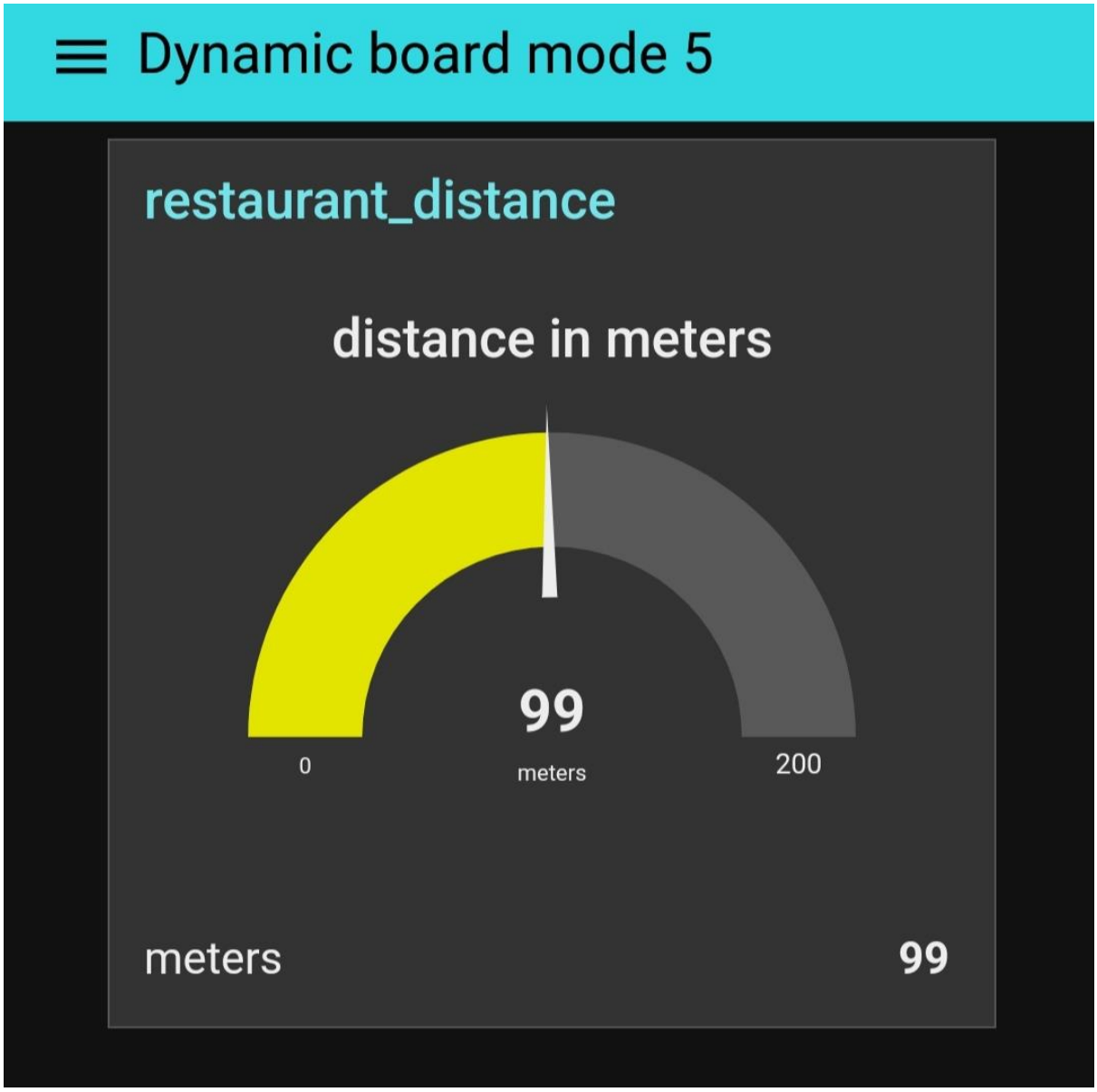
Dynamicboard mode 3

school time

condition for speed limit near school

Your Prefered Speed


Dynamic board mode 4
Hospital distances in meters
hospital distance
31
meters
0
500
condition for horn
No Horn


Dynamic board mode 5
restaurant_distance
distance in meters
99
meters
0
200
meters
99