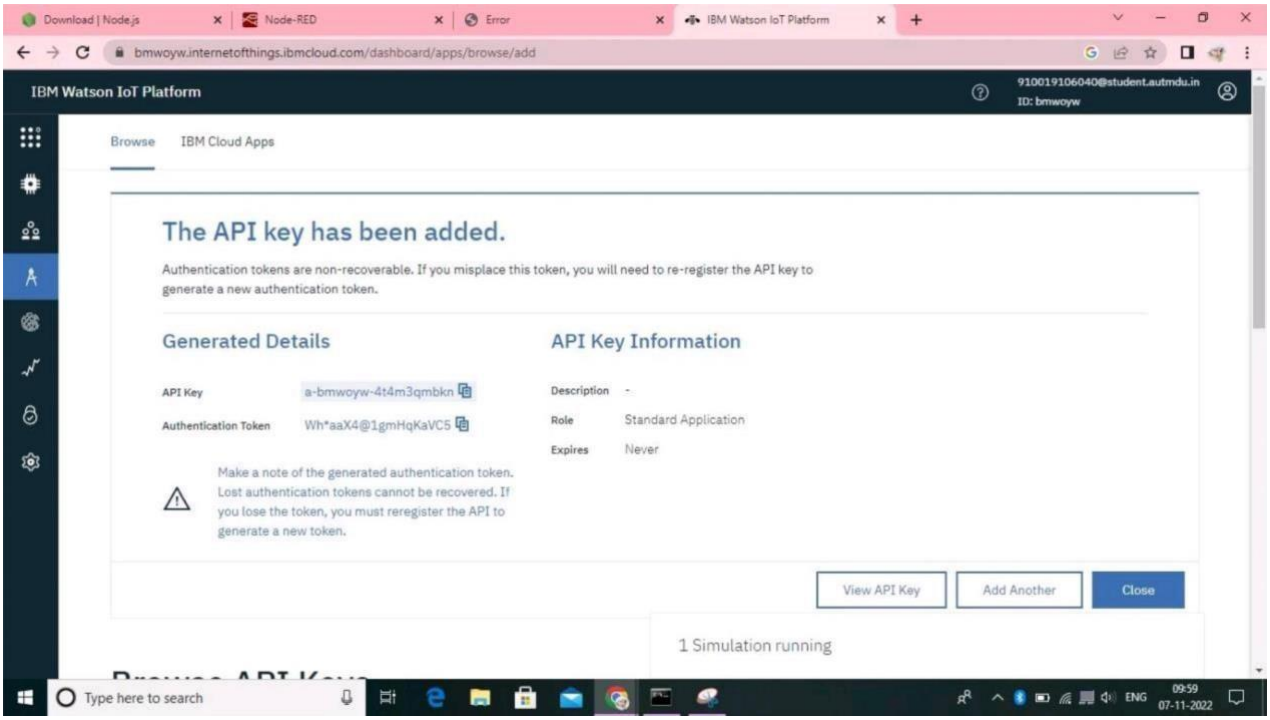
Date		14-11-2022
Team ID		PNT2022TMId38026
Project name		Signs with smart connectivity for better road safety
Maximum marks		20 marks
Sprint-2	US-I	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IOT Platform.
Sprint-2	US-2	Create a Node-RED service.

US-I Configure the connection security and create API keys that are used in the Node-red service for accessing the IBM IOT platform



US-2 Create a Node-red service

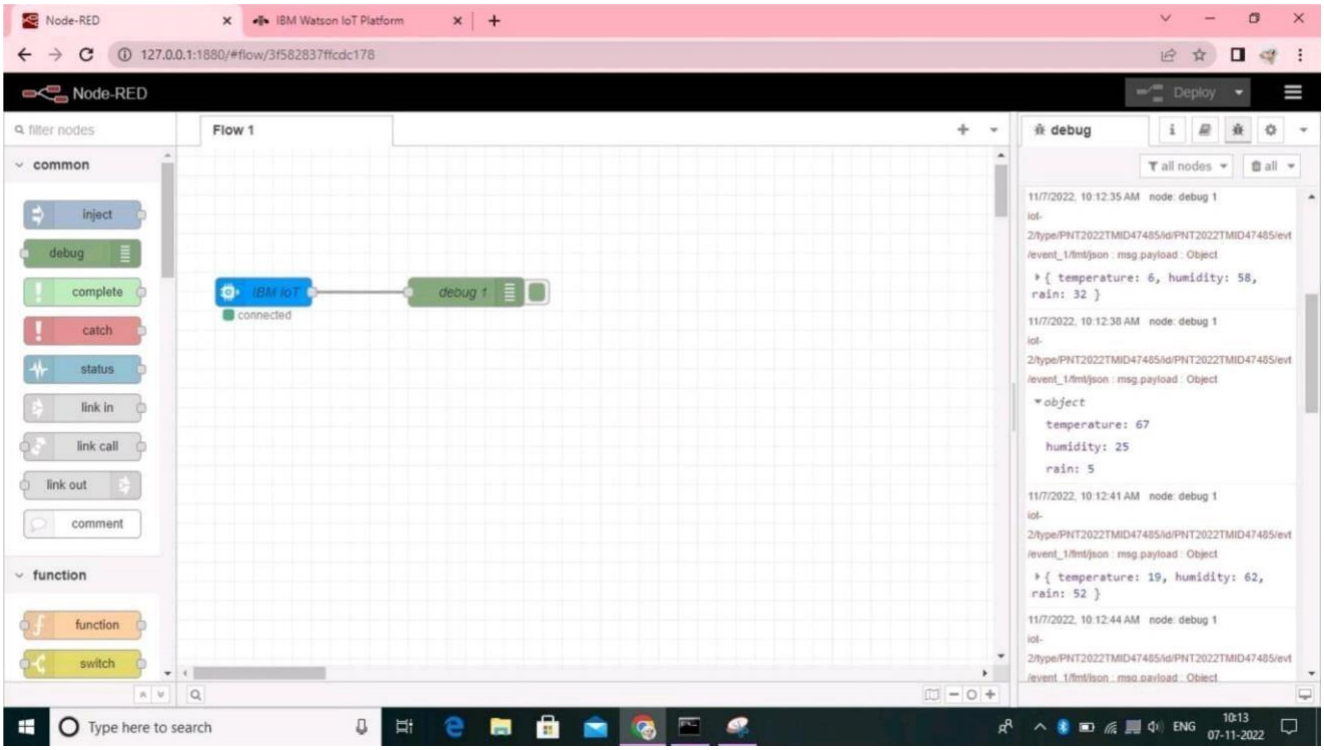
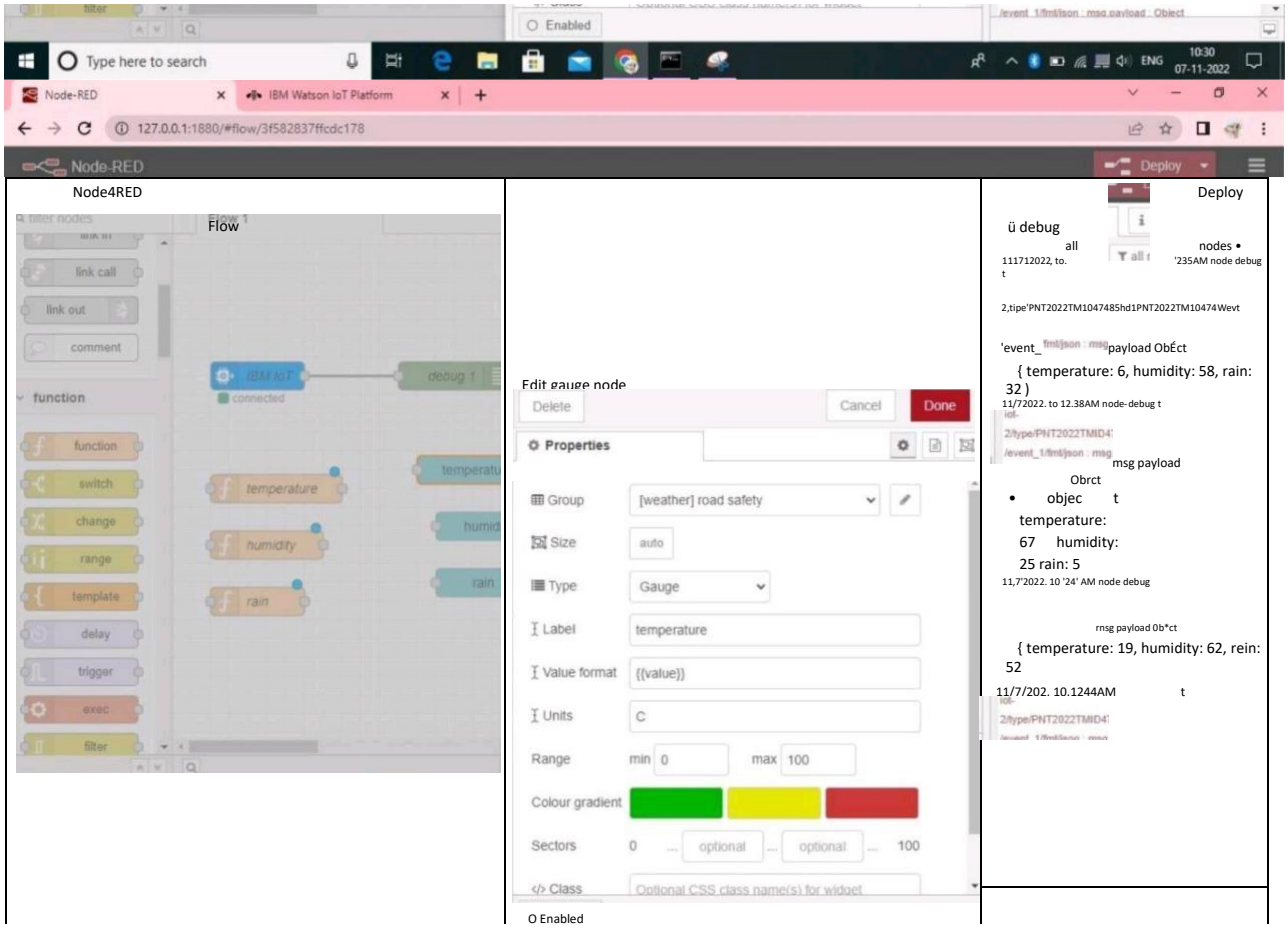
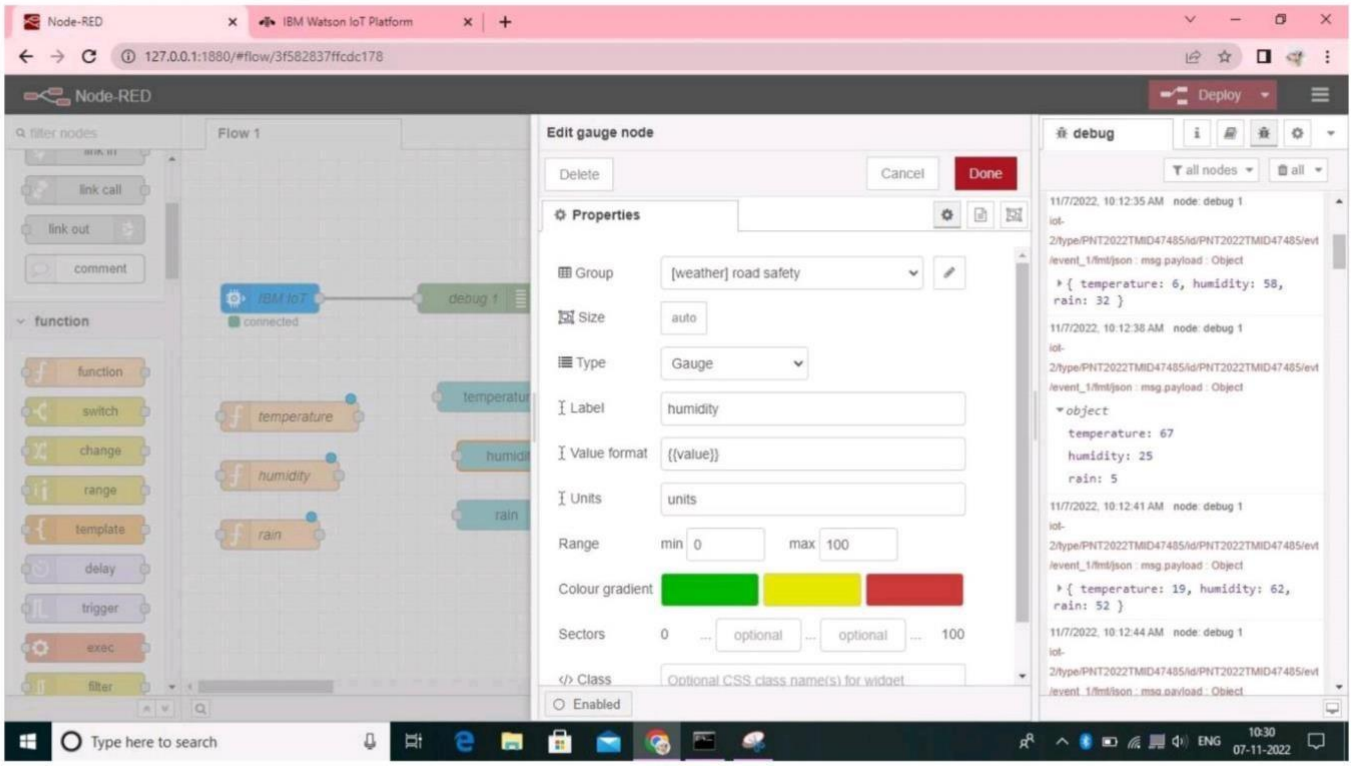
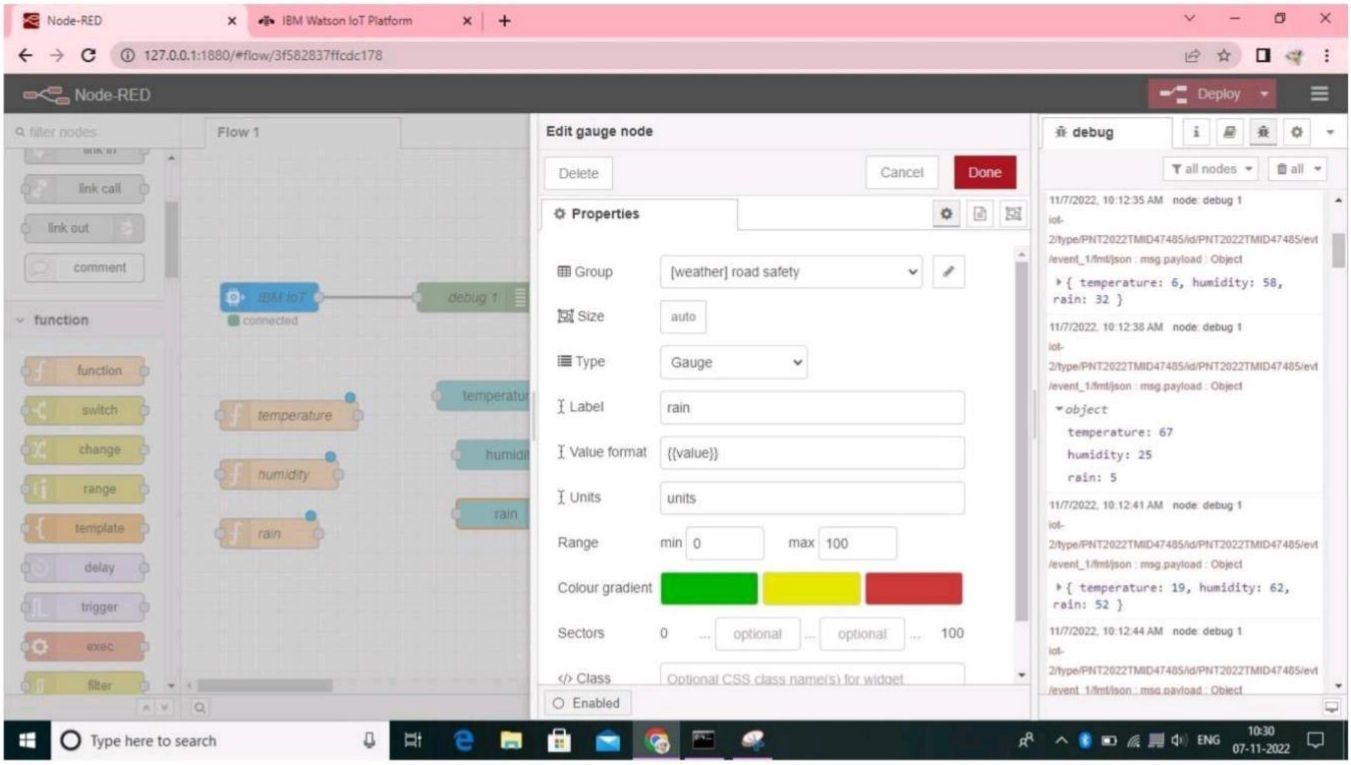


Fig: Monitoring the sensor values- temperature, humidity, rain .




Node-RED
IBM Watson IoT Platform
127.0.0.1:1880/#flow/3f582837ffcdc178
Deploy
Flow 1
Edit gauge node
Delete
Cancel
Done
Properties
Group
[weather] road safety
Size
auto
Type
Gauge
Label
humidity
Value format
{{value}}
Units
units
Range
min 0
max 100
Colour gradient
Sectors
0
optional
optional
100
Class
Optional CSS class name(s) for widget
Enabled
debug
all nodes
all
11/7/2022, 10:12:35 AM node: debug 1
{ temperature: 6, humidity: 58, rain: 32 }
11/7/2022, 10:12:38 AM node: debug 1
object
temperature: 67
humidity: 25
rain: 5
11/7/2022, 10:12:41 AM node: debug 1
{ temperature: 19, humidity: 62, rain: 52 }
11/7/2022, 10:12:44 AM node: debug 1
link call
link out
comment
function
switch
change
range
template
delay
trigger
exec
filter
IBM IoT
connected
debug 1
temperature
humidity
rain
Type here to search
ENG
10:30
07-11-2022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Value format
{{value}}
Units
units
Range
min 0
max 100
Colour gradient
Sectors
0
optional
optional
100
Class
Optional CSS class name(s) for widget
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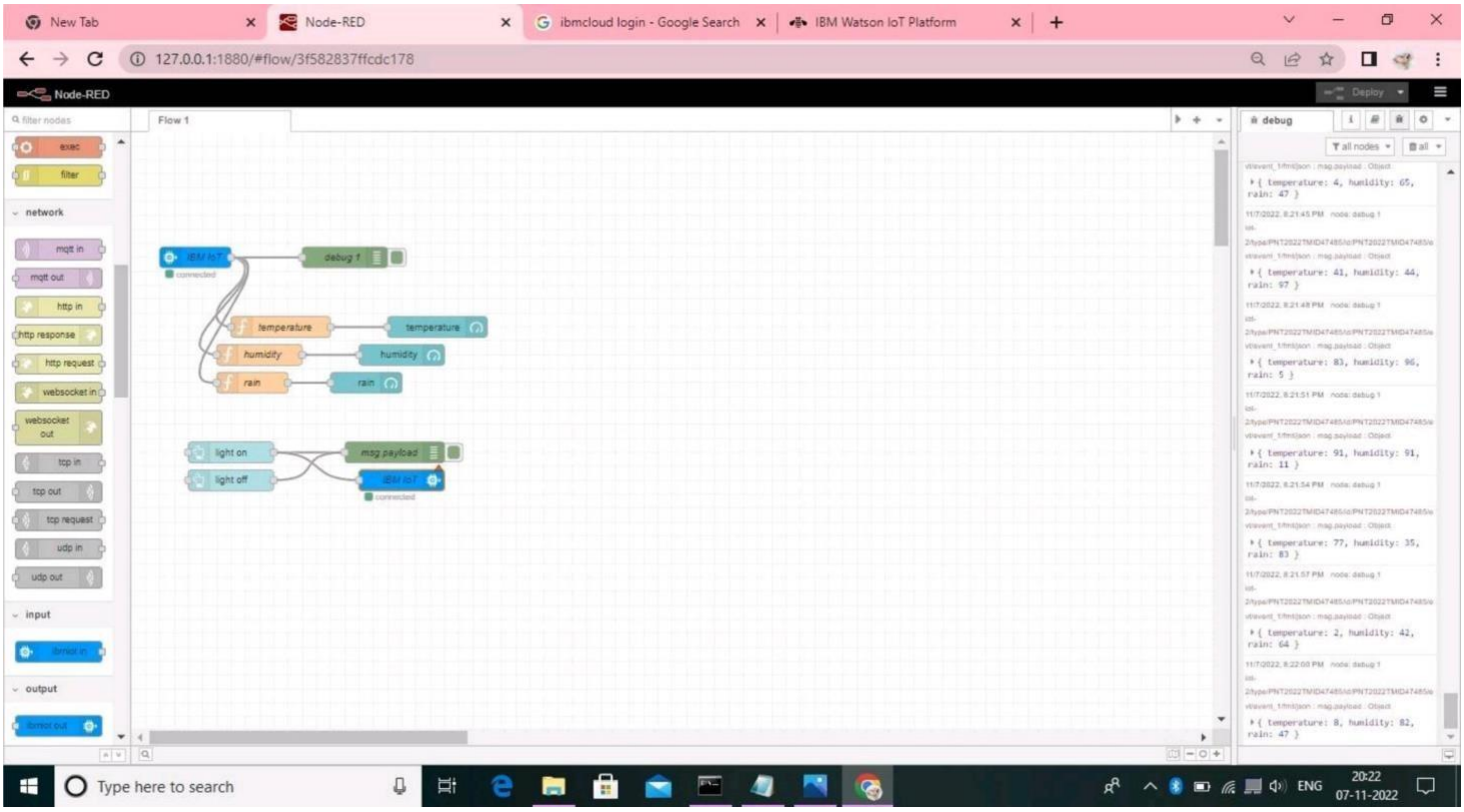
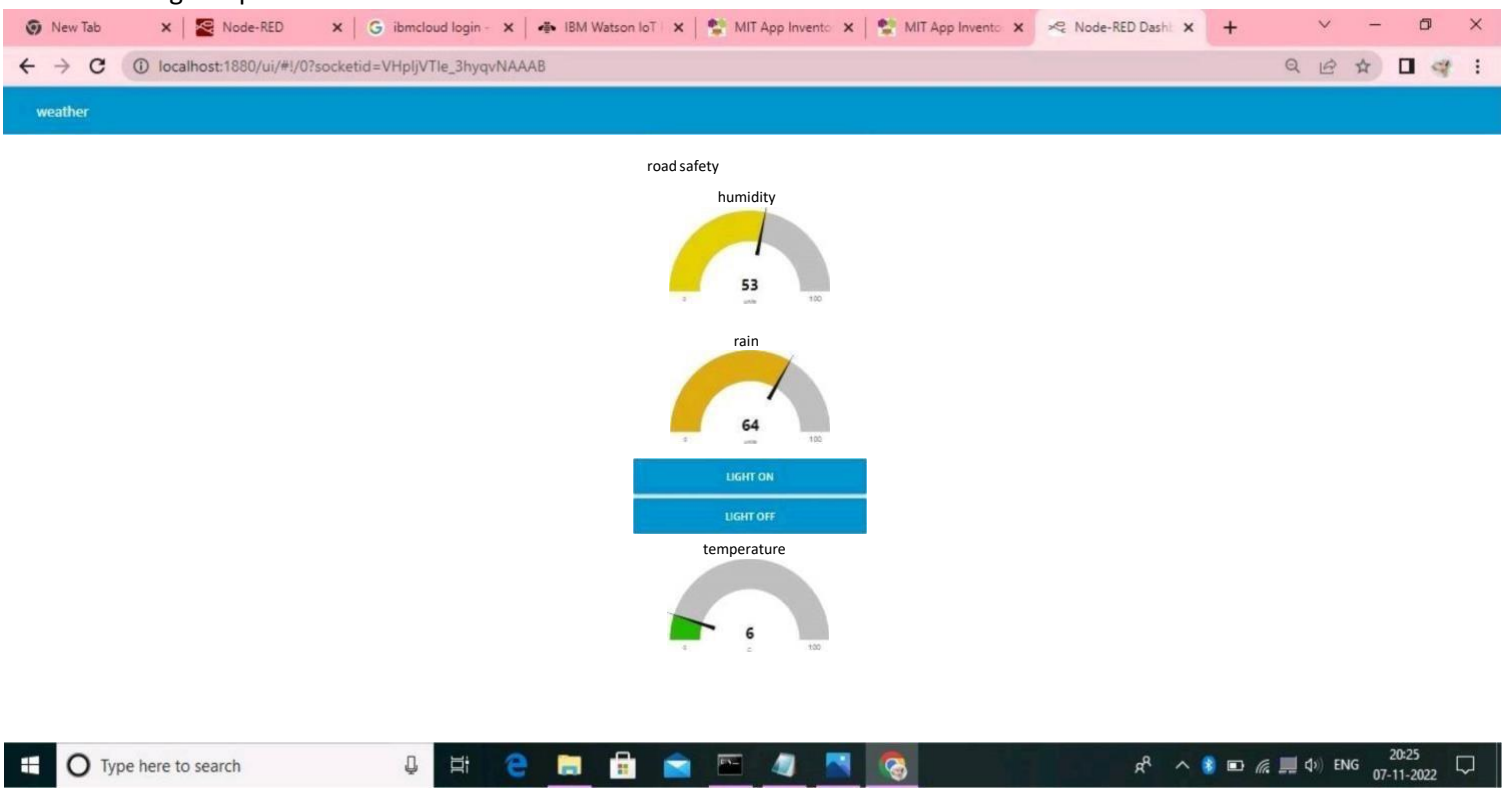
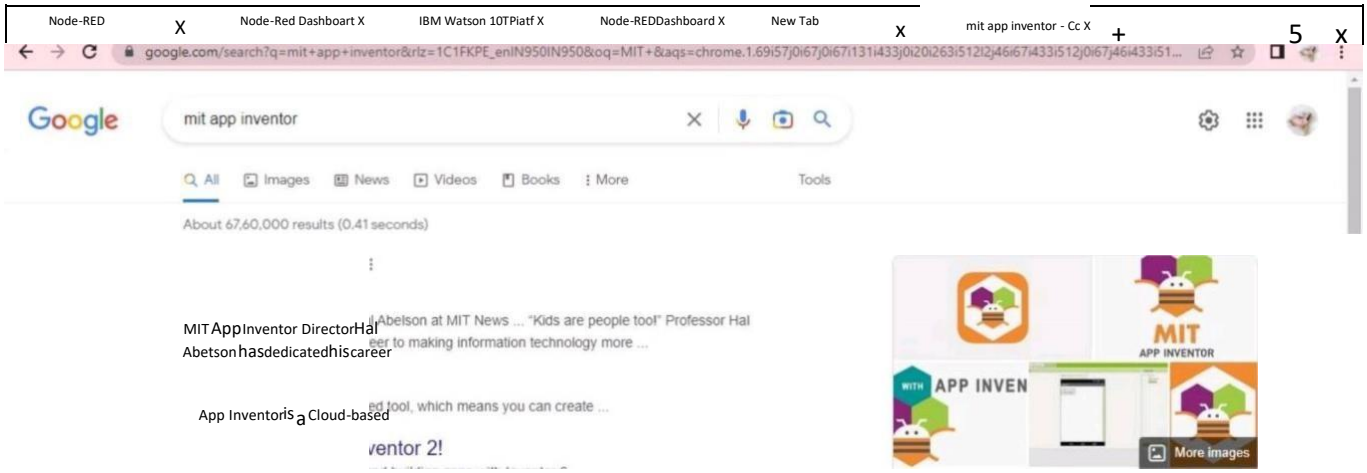


Fig: output from recent events



MIT APP INVERTER TO DESIGN THE APP:



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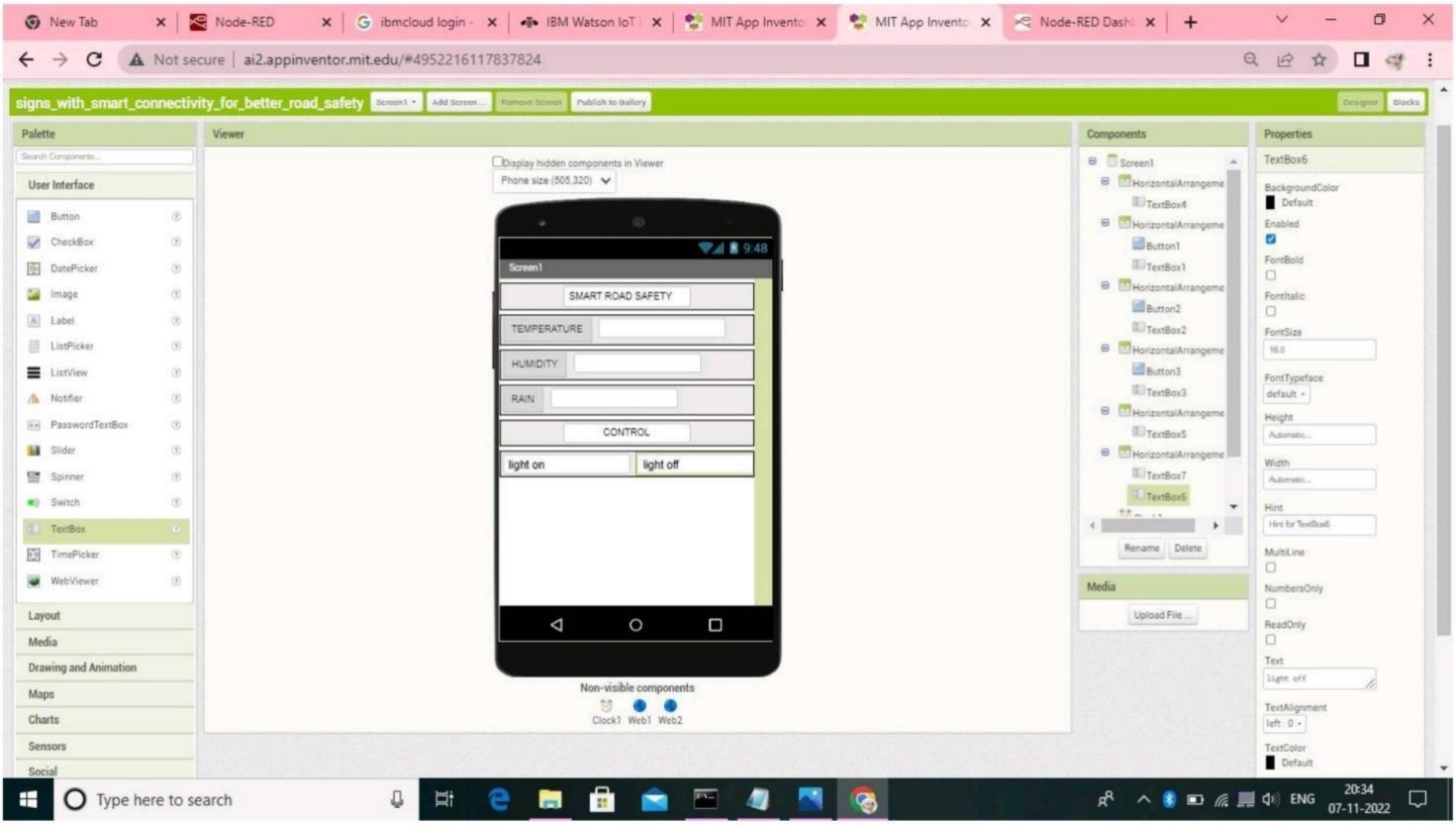
Operating system: Android


New Tab
Node-RED
ibmcloud login -
IBM Watson IoT
MIT App Inventor
MIT App Inventor
Node-RED Dashb
Not secure
ai2.appinventor.mit.edu/#4952216117837824
signs_with_smart_connectivity_for_better_road_safety
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Palette
Search Components...
User Interface
Button
CheckBox
DatePicker
Image
Label
ListPicker
ListView
Notifier
PasswordTextBox
Slider
Spinner
Switch
TextBox
TimePicker
WebViewer
Layout
Media
Drawing and Animation
Maps
Charts
Sensors
Social
Viewer
Display hidden components in Viewer
Phone size (505,320)
9:48
Screen1
SMART ROAD SAFETY
TEMPERATURE
HUMIDITY
RAIN
CONTROL
light on
light off
Non-visible components
Clock1
Web1
Web2
Components
Screen1
HorizontalArrangeme
TextBox4
Button1
TextBox1
Button2
TextBox2
Button3
TextBox3
TextBox5
TextBox7
TextBox6
Rename
Delete
Media
Upload File ...
Properties
TextBox6
BackgroundColor
Default
Enabled
FontBold
FontItalic
FontSize
16.0
FontTypeface
default
Height
Automatic...
Width
Automatic...
Hint
Hint for TextBox6
MultiLine
NumbersOnly
ReadOnly
Text
Light: off
TextAlignment
left : 0
TextColor
Default
Type here to search
ENG
20:34
07-11-2022