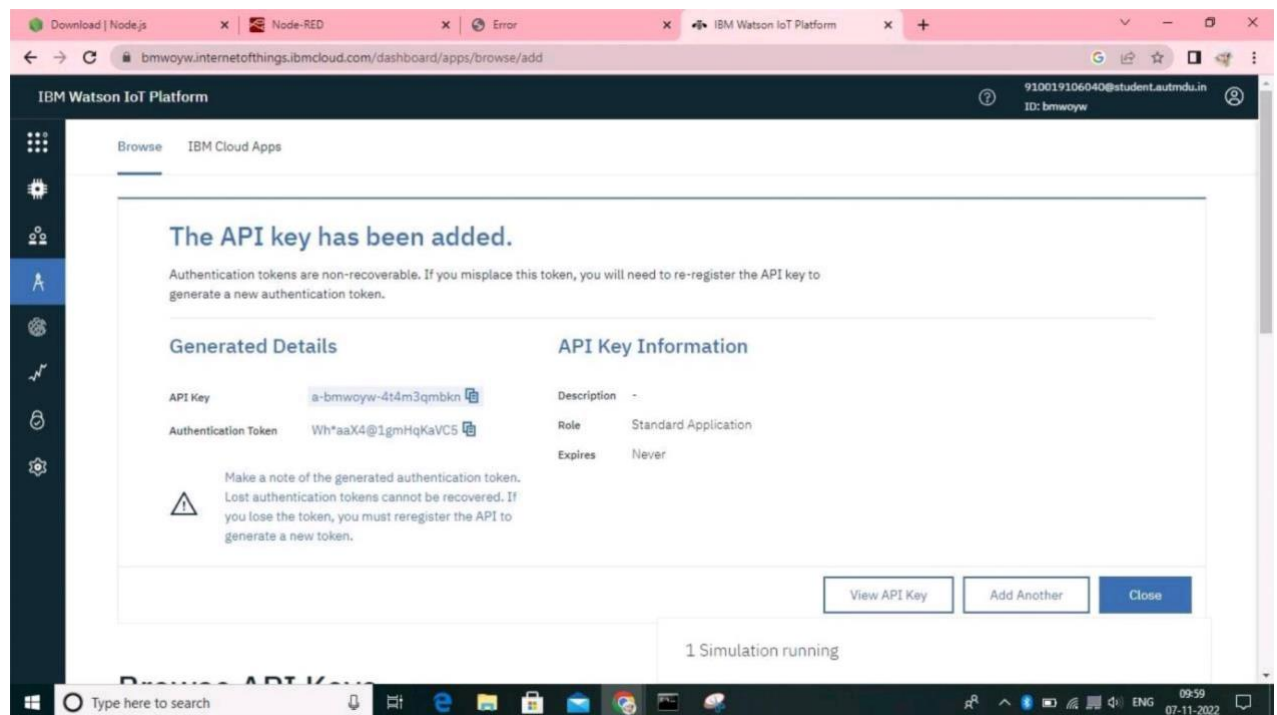


Date		14-11-2022
Team ID		PNT2022TMID35067
Project name		Signs with smart connectivity for better road safety
Maximum marks		20 marks
Sprint-2	US-I	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IOT Platform.
Sprint-2	US-2	Create a Node-RED 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

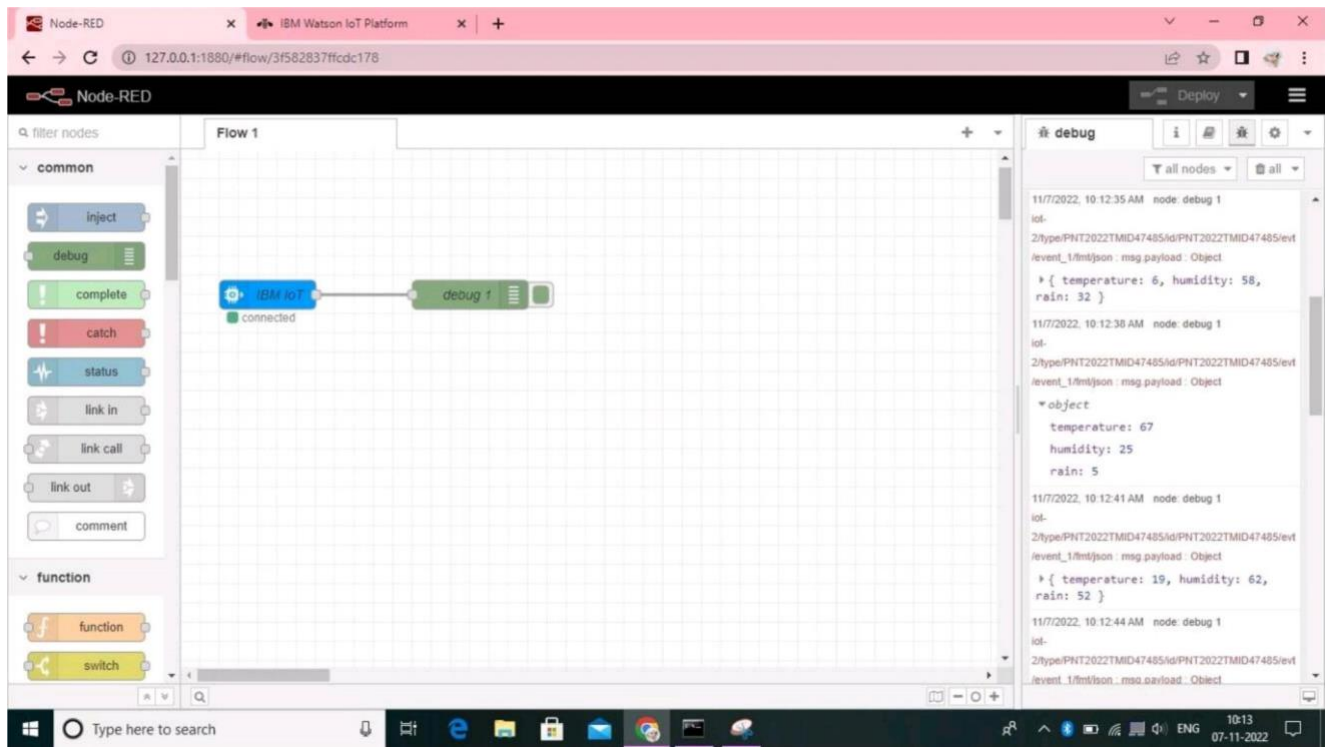
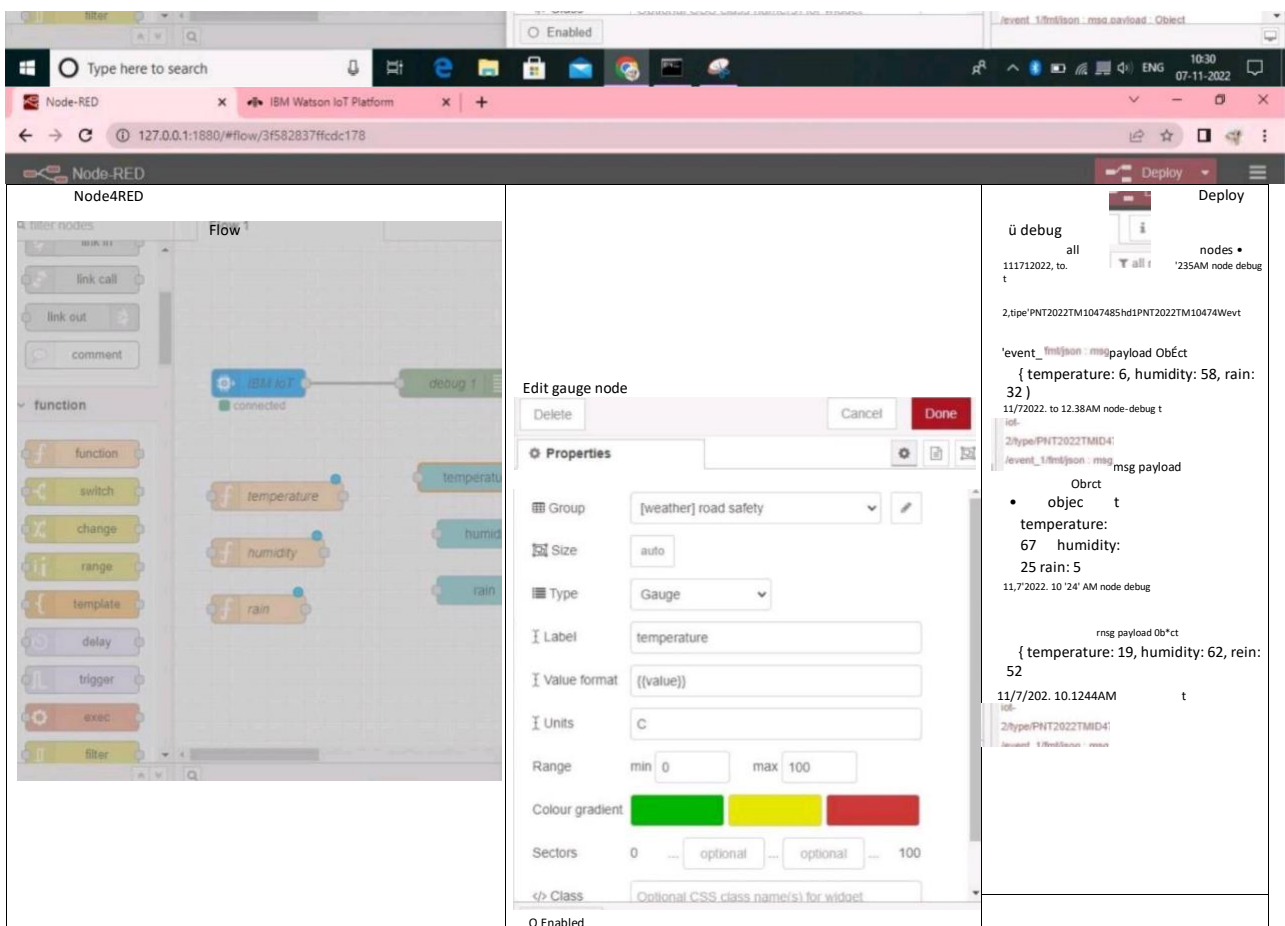


Fig: Monitoring the sensor values- temperature, humidity, rain .



Node-RED interface showing a flow with an IBM IoT node connected to a debug node. The 'Edit gauge node' panel is open, displaying properties for a gauge widget. The gauge is configured with the following settings:

- Group: [weather] road safety
- Size: auto
- Type: Gauge
- Label: humidity
- Value format: {{value}}
- Units: units
- Range: min 0, max 100
- Colour gradient: [Green, Yellow, Red]
- Sectors: 0, optional, optional, 100
- Class: Optional CSS class name(s) for widget

The debug console shows the following log entries:

```
11/7/2022, 10:12:35 AM node debug 1
iot-
2/type/PNT2022TMD47485/id/PNT2022TMD47485/ev
/vent_1/fm/json : msg.payload : Object
{ temperature: 6, humidity: 58,
rain: 32 }

11/7/2022, 10:12:38 AM node debug 1
iot-
2/type/PNT2022TMD47485/id/PNT2022TMD47485/ev
/vent_1/fm/json : msg.payload : Object
{ temperature: 67
humidity: 25
rain: 5 }

11/7/2022, 10:12:41 AM node debug 1
iot-
2/type/PNT2022TMD47485/id/PNT2022TMD47485/ev
/vent_1/fm/json : msg.payload : Object
{ temperature: 19, humidity: 62,
rain: 52 }
```

Node-RED interface showing a flow with an IBM IoT node connected to a debug node. The 'Edit gauge node' panel is open, displaying properties for a gauge widget. The gauge is configured with the following settings:

- Group: [weather] road safety
- Size: auto
- Type: Gauge
- Label: rain
- Value format: {{value}}
- Units: units
- Range: min 0, max 100
- Colour gradient: [Green, Yellow, Red]
- Sectors: 0, optional, optional, 100
- Class: Optional CSS class name(s) for widget

The debug console shows the following log entries:

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/vent_1/fm/json : msg.payload : Object
{ temperature: 19, humidity: 62,
rain: 52 }
```

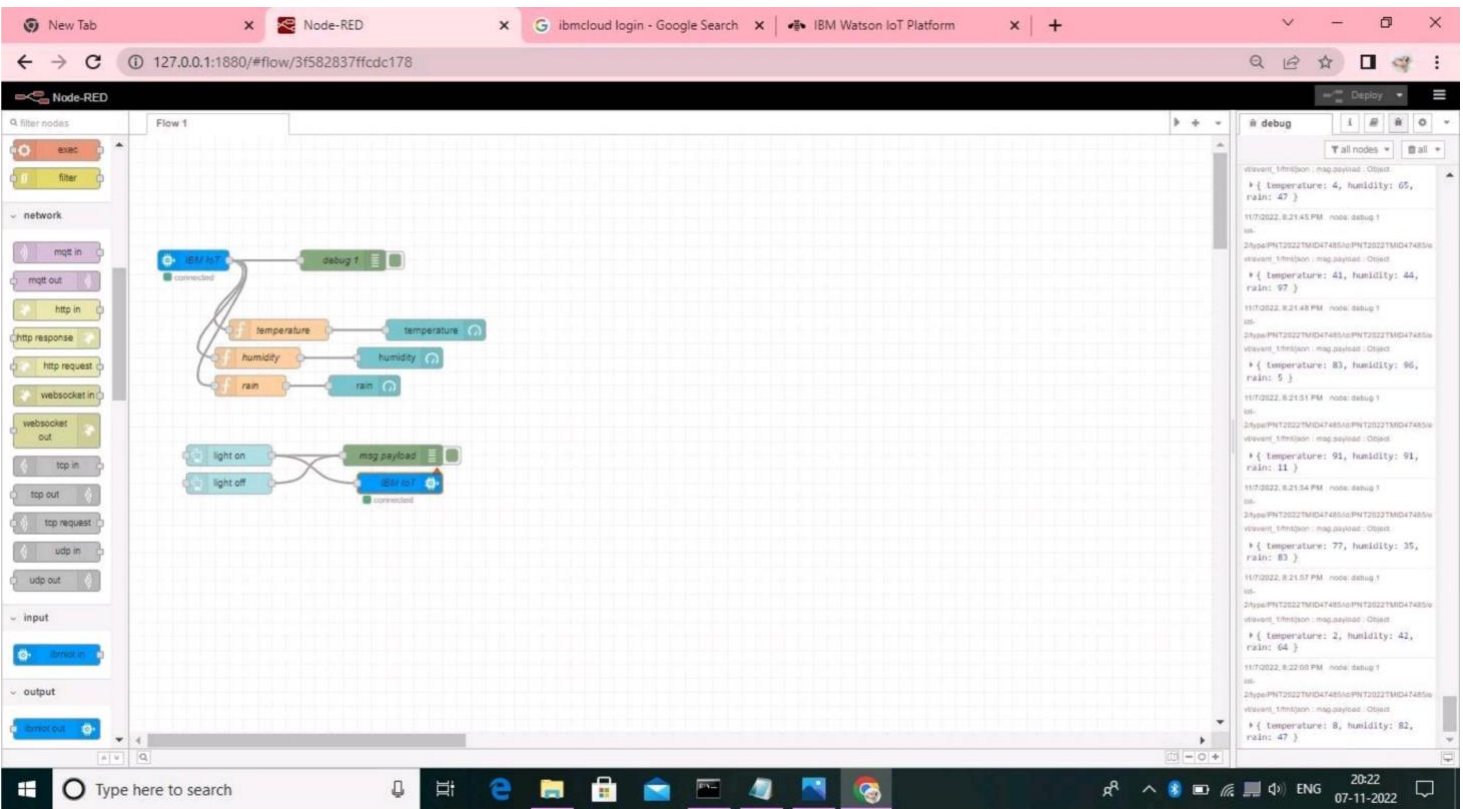
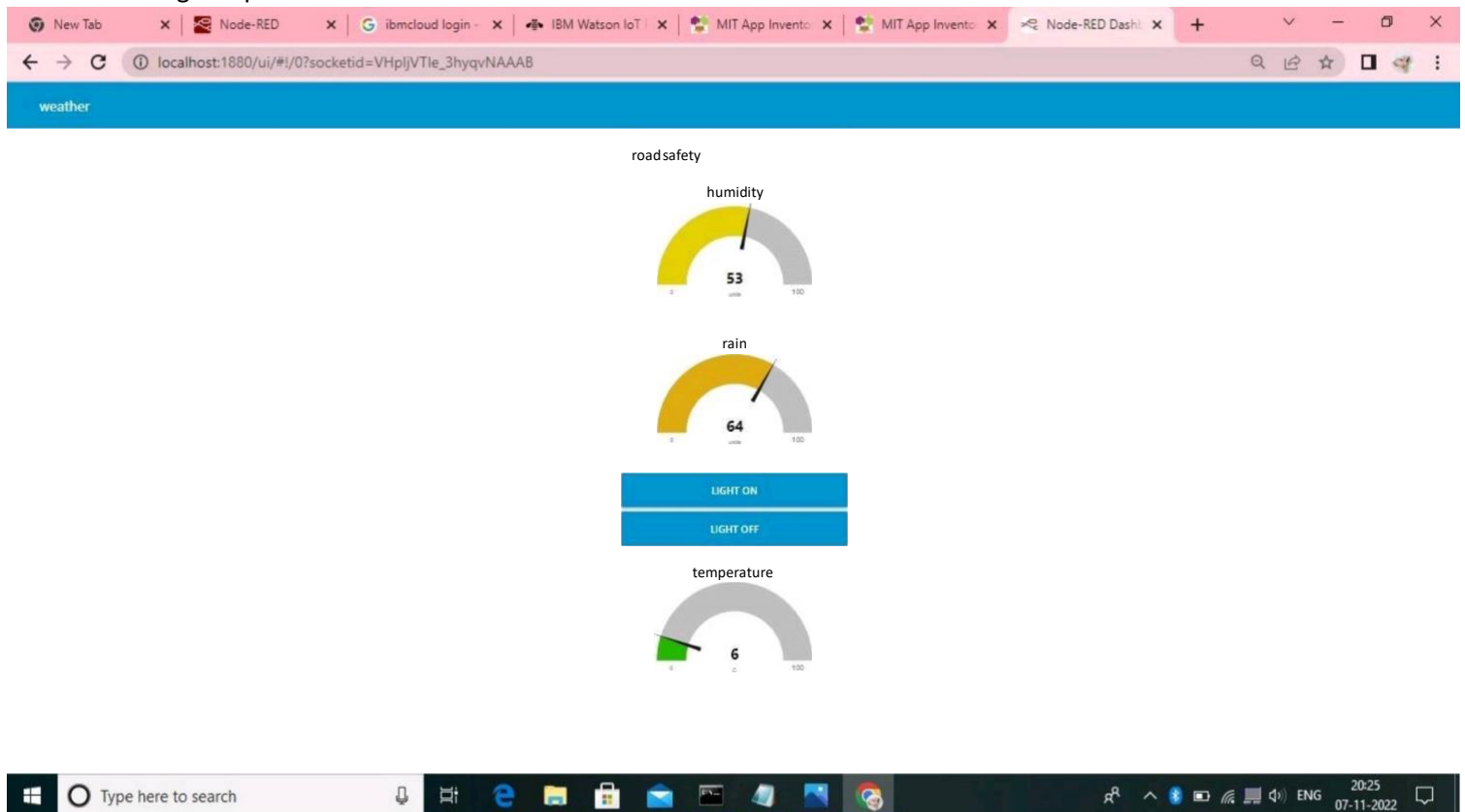
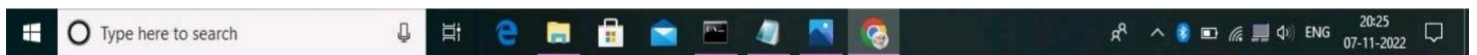
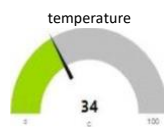
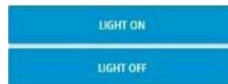
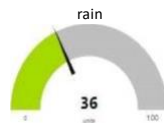


Fig: output from recent events

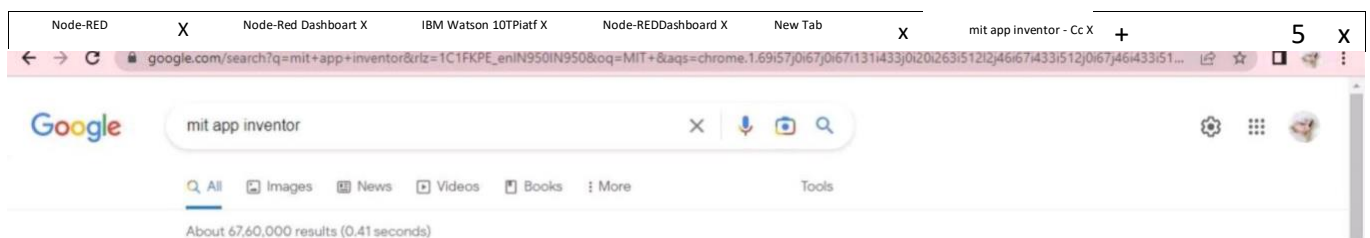




roadsafety



MIT APP INVERTER TO DESIGN THE APP:



MIT App Inventor Director Hal Abelson at MIT News ... "Kids are people tool" Professor Hal Abelson has dedicated his career to making information technology more ...

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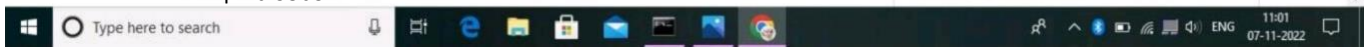
MIT App Inventor is a web application integrated development environment originally provided by

Google, and now maintained by the Massachusetts

Institute of Technology Wikipedia

Initial release date: 15 December 2010

Operating system: Android



Operating system: Android

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
- WebView

Layout

Media

Drawing and Animation

Maps

Charts

Sensors

Social

Viewer

Display hidden components in Viewer

Phone size (505,320)

Screen1

SMART ROAD SAFETY

TEMPERATURE

HUMIDITY

RAIN

CONTROL

light on

light off

Non-visible components

Clock1

Web1

Web2

Components

- Screen1
 - HorizontalArrangeme
 - TextBox4
 - HorizontalArrangeme
 - Button1
 - TextBox1
 - HorizontalArrangeme
 - Button2
 - HorizontalArrangeme
 - Button3
 - HorizontalArrangeme
 - TextBox2
 - HorizontalArrangeme
 - TextBox3
 - HorizontalArrangeme
 - TextBox5
 - HorizontalArrangeme
 - TextBox7
 - HorizontalArrangeme
 - 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

20:34

07-11-2022