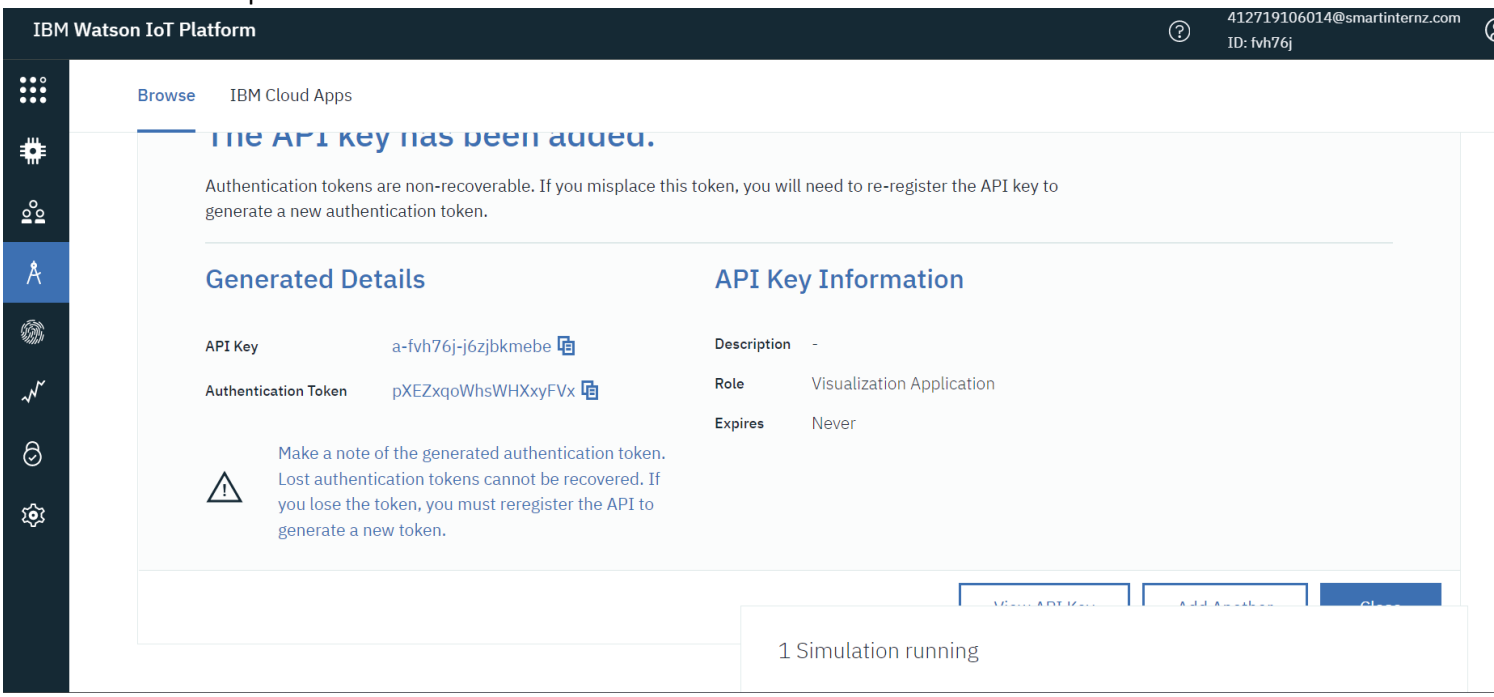
Date Team ID	14-11-2022 PNT2022TMID38378
Project name	Signs with smart connectivity for better road safety
Maximum marks	20 marks

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

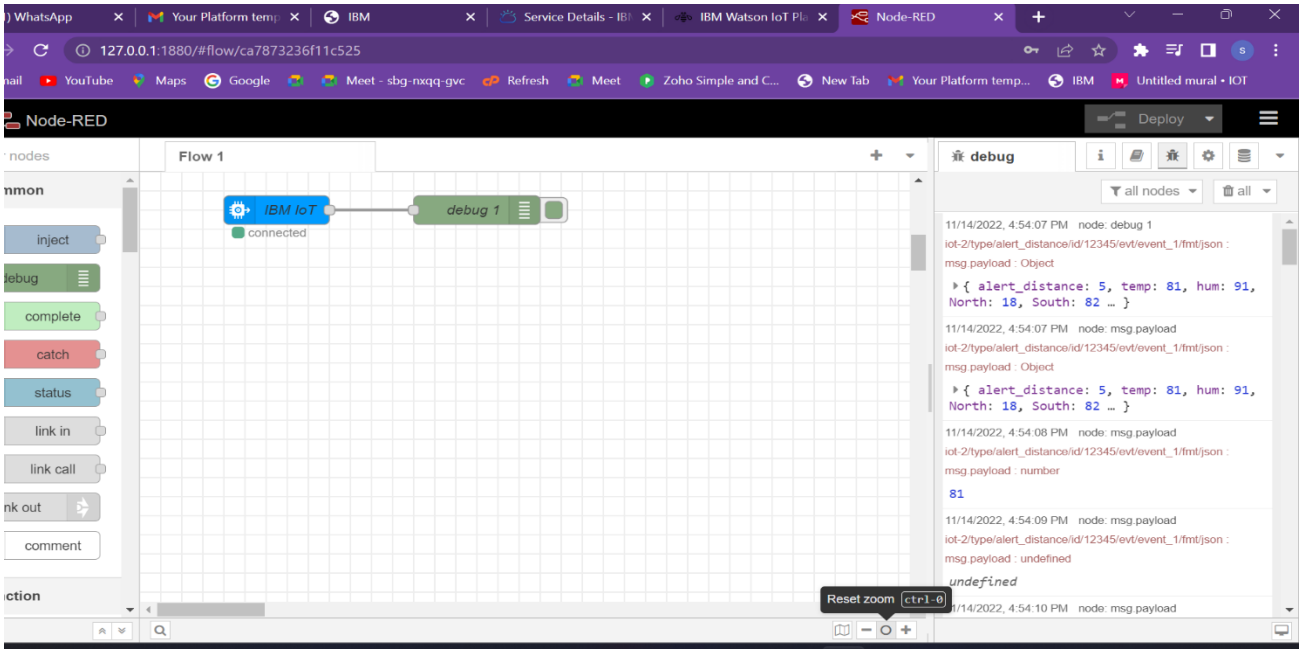
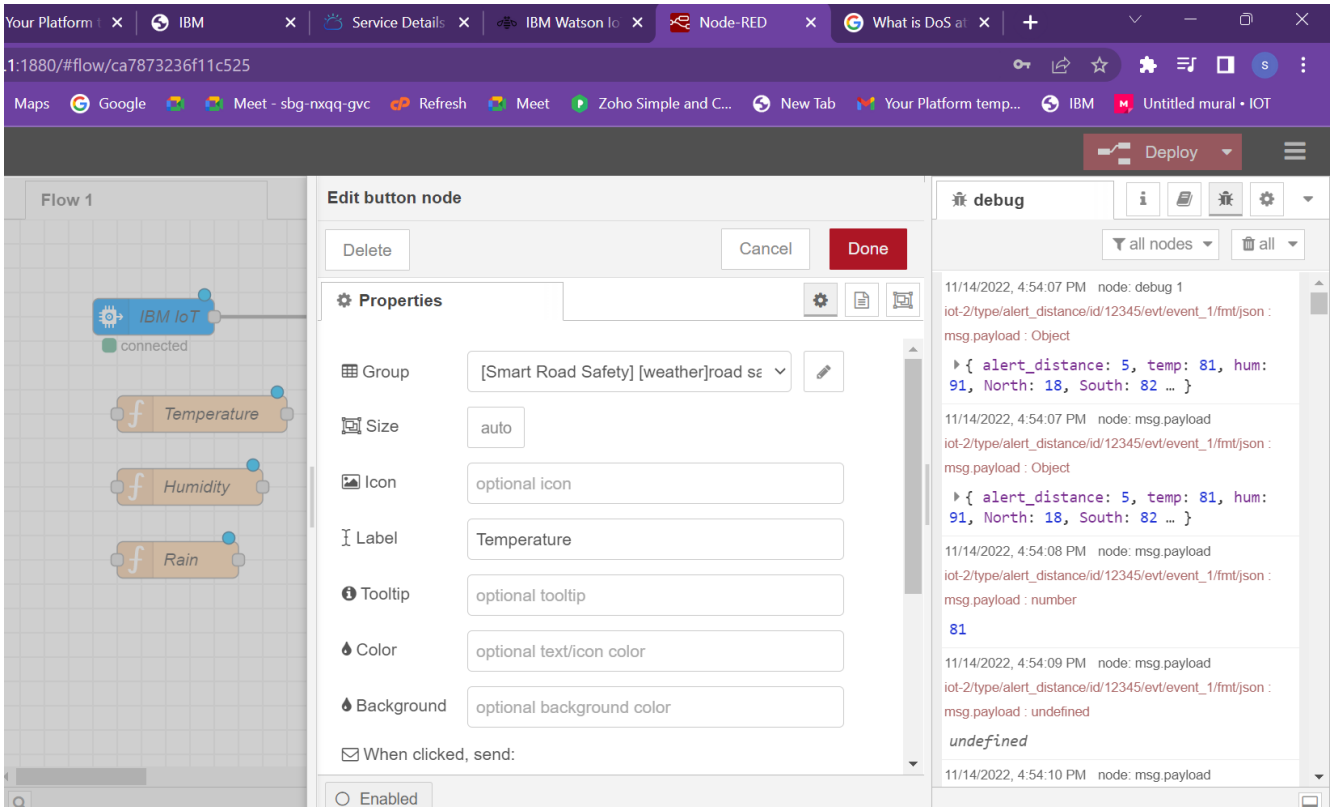
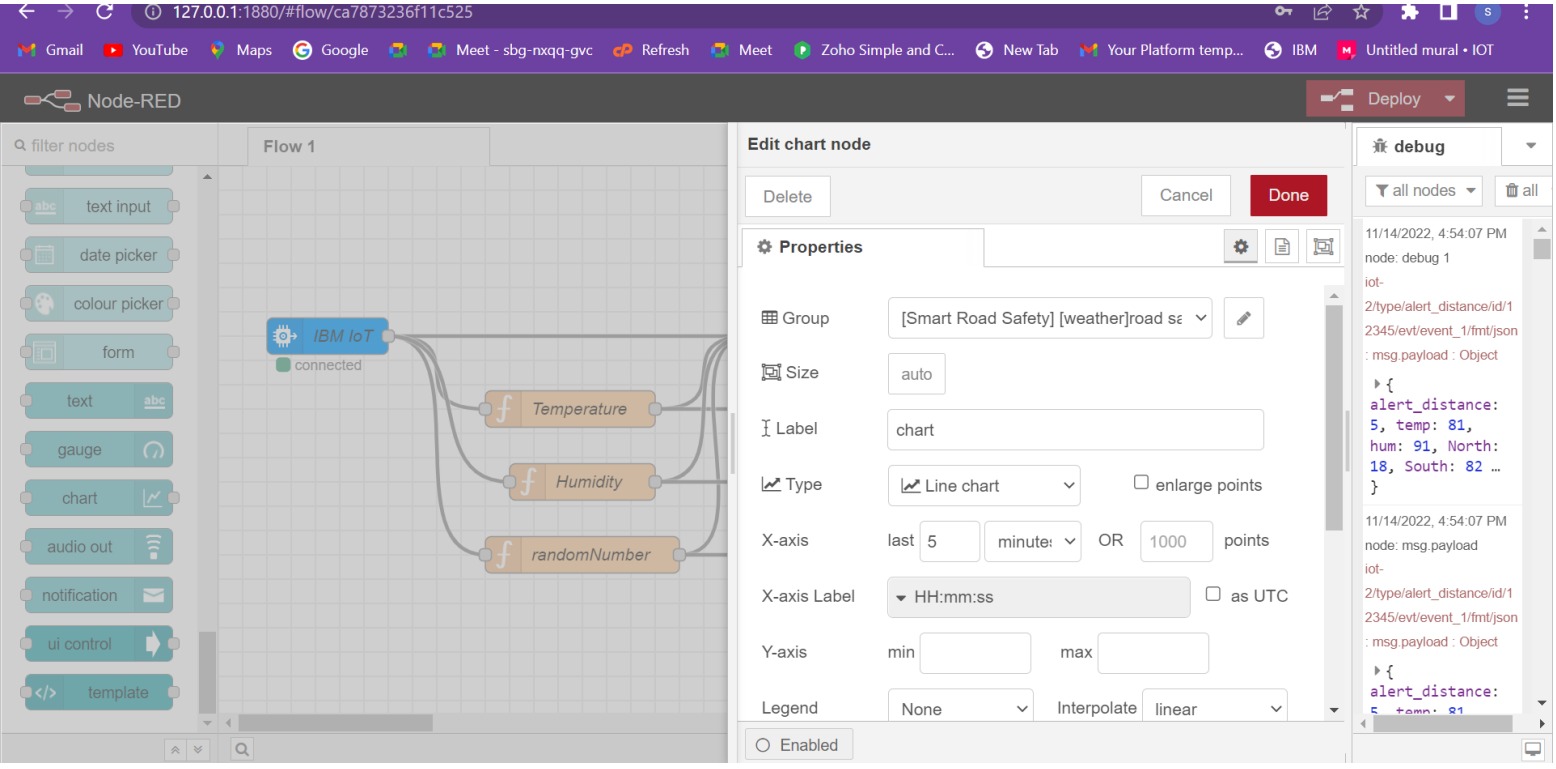


Fig: Monitoring the sensor values- temperature, humidity, rain.






Node-RED
Deploy
Flow 1
debug
exec
filter
network
mqtt in
mqtt out
http in
http response
http request
websocket in
websocket out
tcp in
tcp out
tcp request
udp in
udp out
input
output
debug 1
temperature
humidity
rain
light on
light off
msg.payload
connected
{ temperature: 4, humidity: 65, rain: 47 }
{ temperature: 41, humidity: 44, rain: 97 }
{ temperature: 83, humidity: 96, rain: 5 }
{ temperature: 91, humidity: 91, rain: 11 }
{ temperature: 77, humidity: 35, rain: 83 }
{ temperature: 2, humidity: 42, rain: 64 }
{ temperature: 8, humidity: 82, rain: 47 }

Fig: output from recent events

MIT APP INVERTER TO DESIGN THE APP:

MIT App Inventor
Director Hal
Abetsonhasdedic
atedhiscareer
App Inventories Cloud-based: httpswappinventor.mit.edu

MIT App Inventor
Get Started

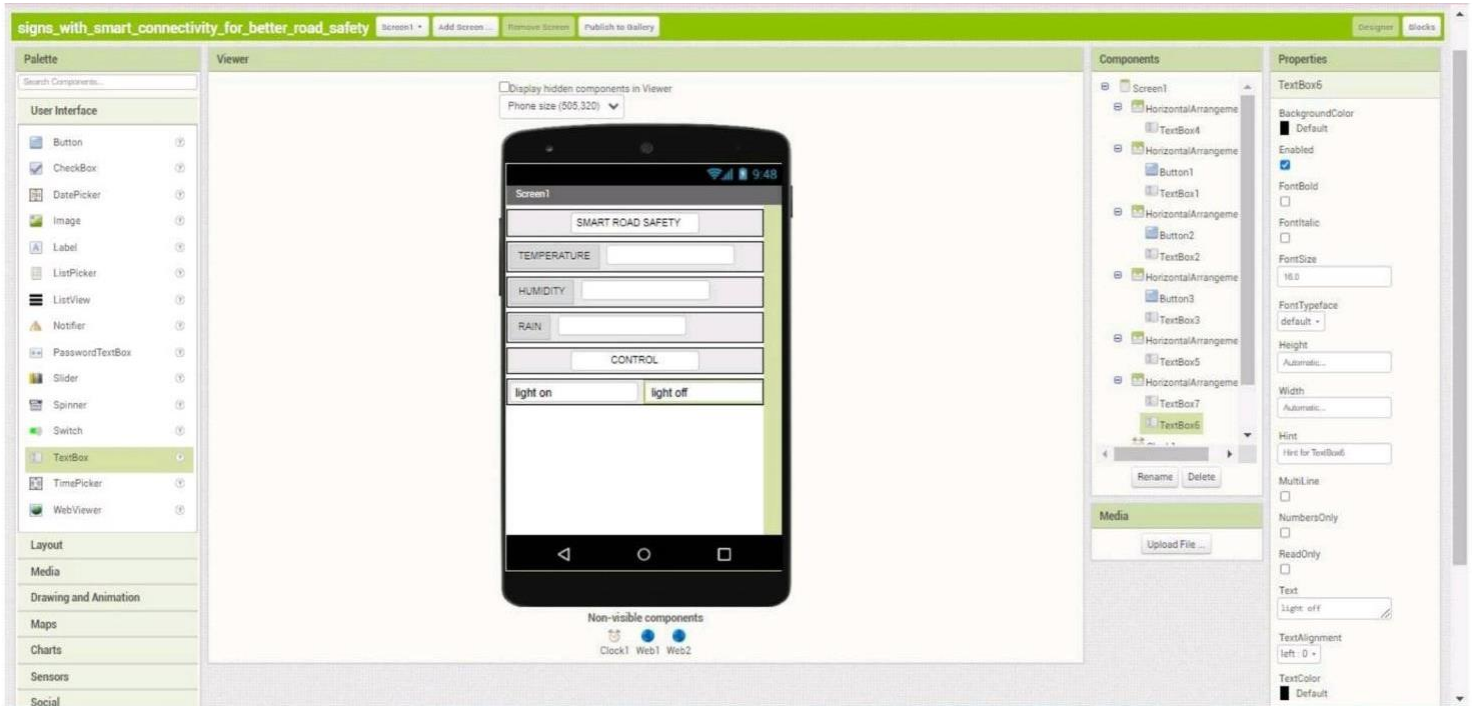
Welcome to App Inventor 2

1. To go directly to designing and budding apps With Inventor

App Inventor for Android <

2.App Inventor

Computer program


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
HorizontalArrangeme
Button1
TextBox1
HorizontalArrangeme
Button2
TextBox2
HorizontalArrangeme
Button3
TextBox3
HorizontalArrangeme
TextBox5
HorizontalArrangeme
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