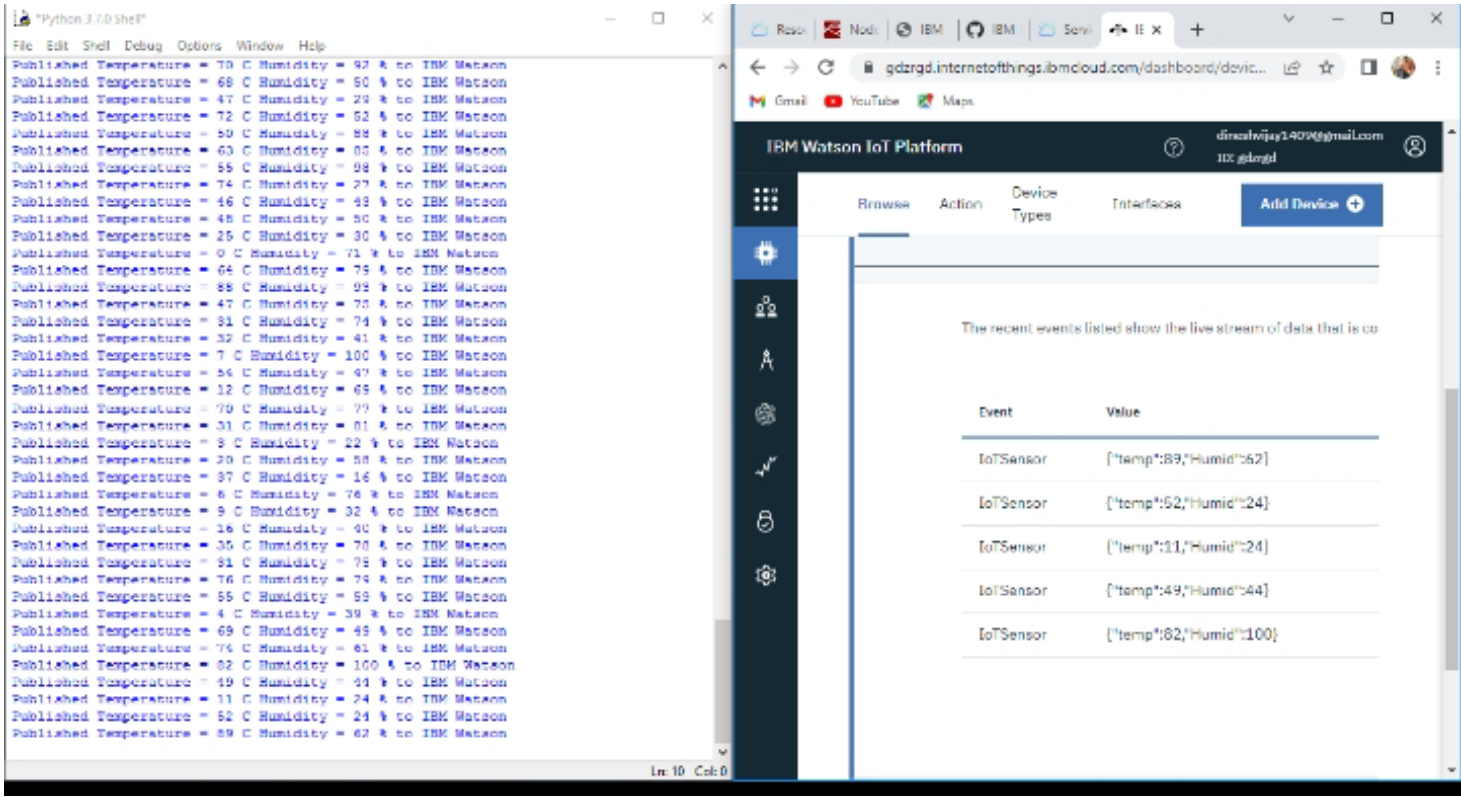
Date Team ID	14-11-2022 PNT2022TMID39403
Project name	Signs with smart connectivity for better road safety
Maximum marks	20 marks

IBM Watson IoT Platform



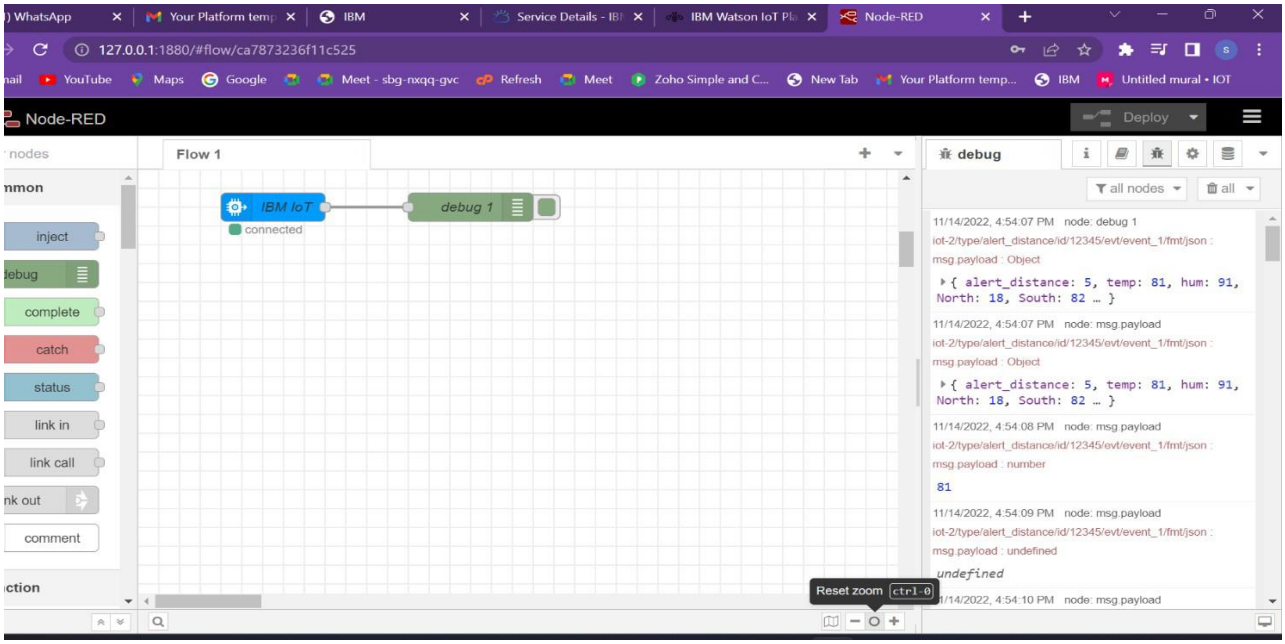
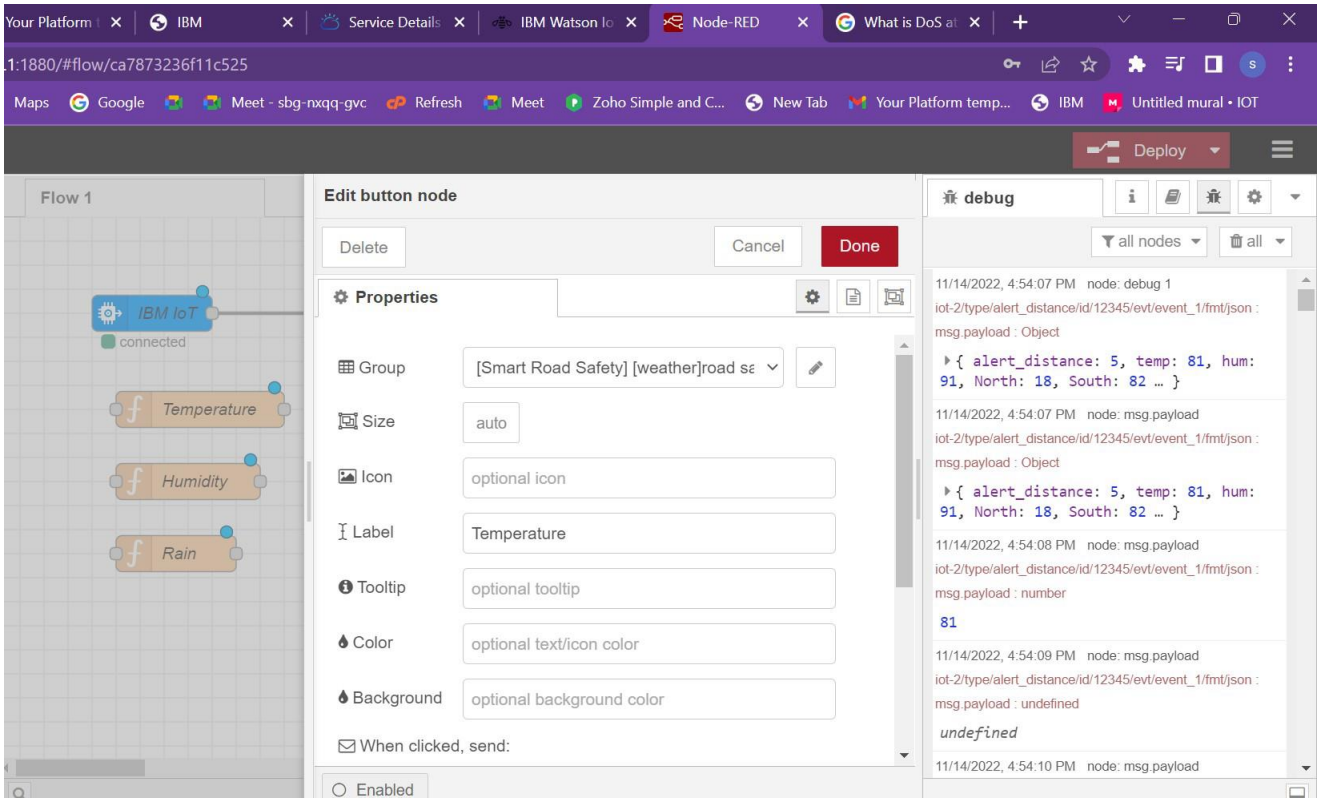
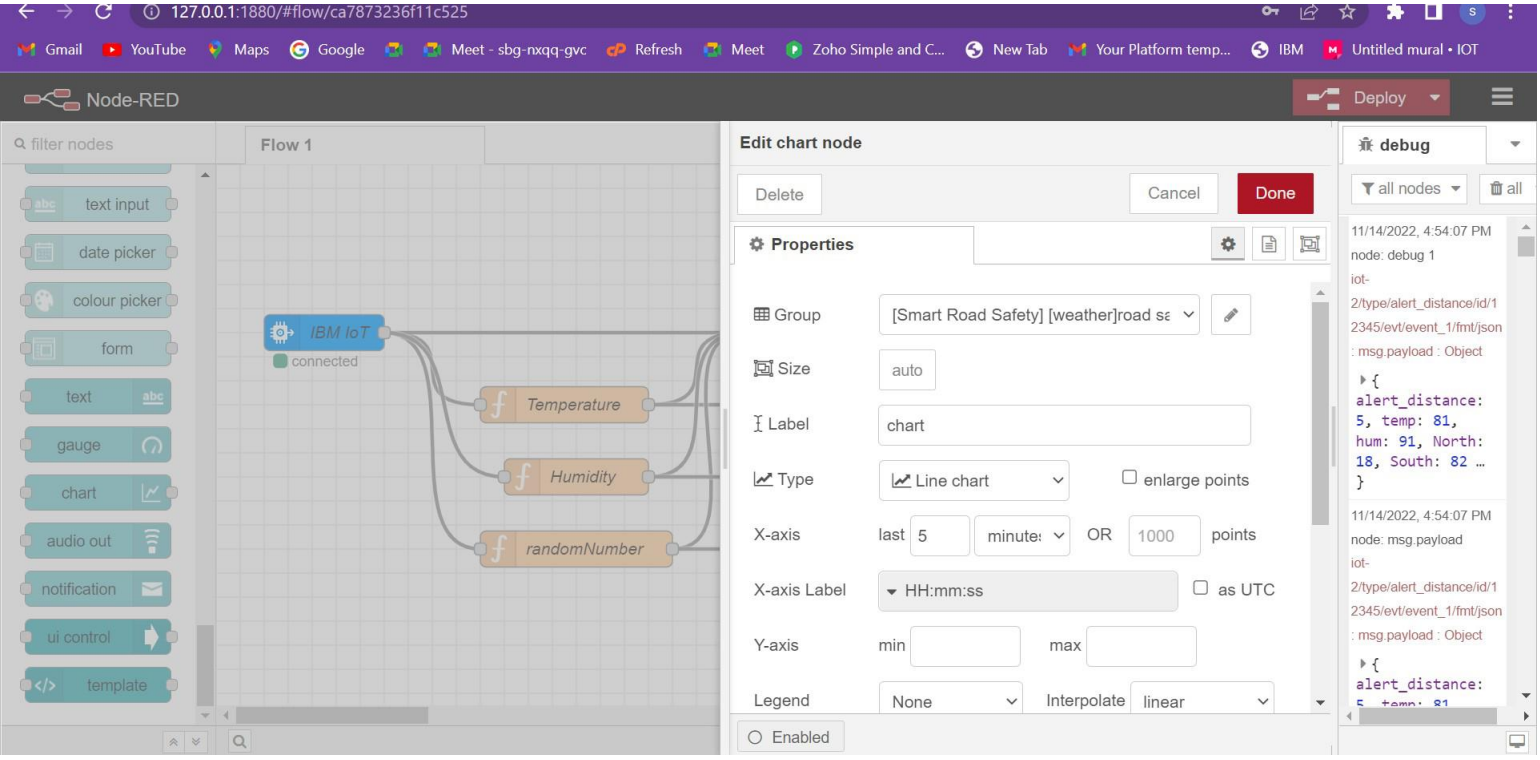

WhatsApp
Your Platform temp
IBM
Service Details - IBI
IBM Watson IoT Pla
Node-RED
127.0.0.1:1880/#flow/ca7873236f11c525
YouTube
Maps
Google
Meet - sbg-nxqq-gvc
Refresh
Meet
Zoho Simple and C...
New Tab
Your Platform temp...
IBM
Untitled mural • IOT
Node-RED
Deploy
Flow 1
debug
all nodes
all
inject
debug
complete
catch
status
link in
link call
comment
IBM IoT
connected
debug 1
11/14/2022, 4:54:07 PM node: debug 1
iot-2/type/alert_distance/id/12345/evt/event_1/fmt/json :
msg.payload : Object
{ alert_distance: 5, temp: 81, hum: 91, North: 18, South: 82 … }
11/14/2022, 4:54:07 PM node: msg.payload
iot-2/type/alert_distance/id/12345/evt/event_1/fmt/json :
msg.payload : Object
{ alert_distance: 5, temp: 81, hum: 91, North: 18, South: 82 … }
11/14/2022, 4:54:08 PM node: msg.payload
iot-2/type/alert_distance/id/12345/evt/event_1/fmt/json :
msg.payload : number
81
11/14/2022, 4:54:09 PM node: msg.payload
iot-2/type/alert_distance/id/12345/evt/event_1/fmt/json :
msg.payload : undefined
undefined
Reset zoom ctrl-0

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






Node-RED
Deploy
Flow 1
debug
filter nodes
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
IBM IoT
debug 1
temperature
humidity
rain
light on
light off
msg.payload
all nodes
all
{ 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

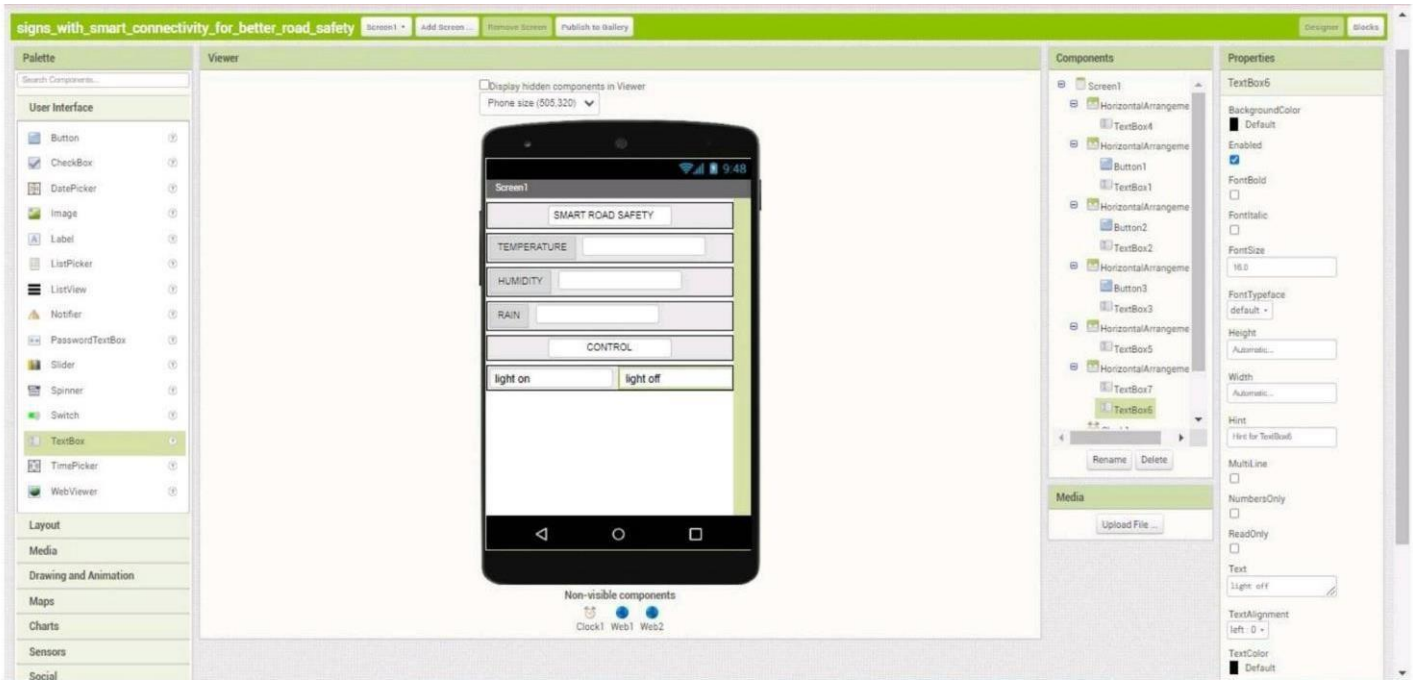
Welcome to App Inventor 2

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
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