



Experiment no. 4

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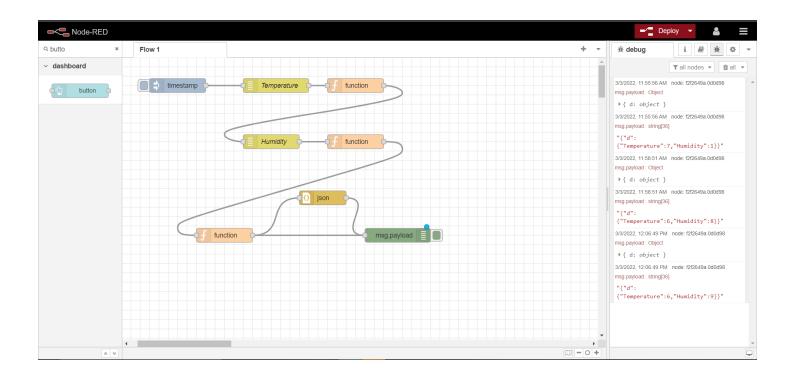
Branch: CSE-IOT Section/Group: 1-A

Semester: 6th Date of Performance: 08/03/2022

Subject Name: CCIOT Lab Subject Code: CSD-387

1. Aim/Overview of the practical: Display Temperature and Humidity Sensor Data in Node-Red Dashboard using Arduino

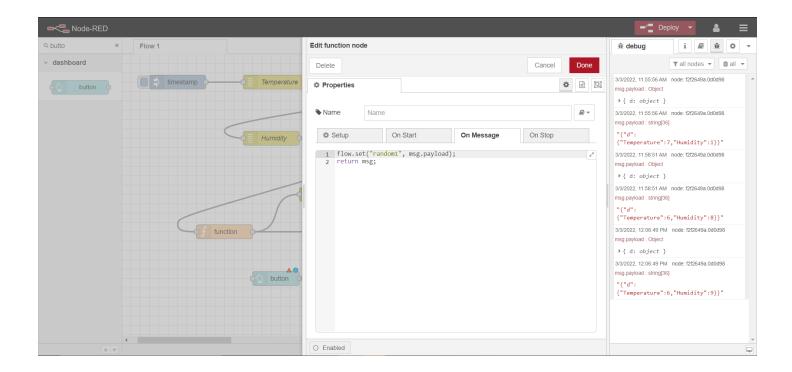
2. Steps for experiment/practical:

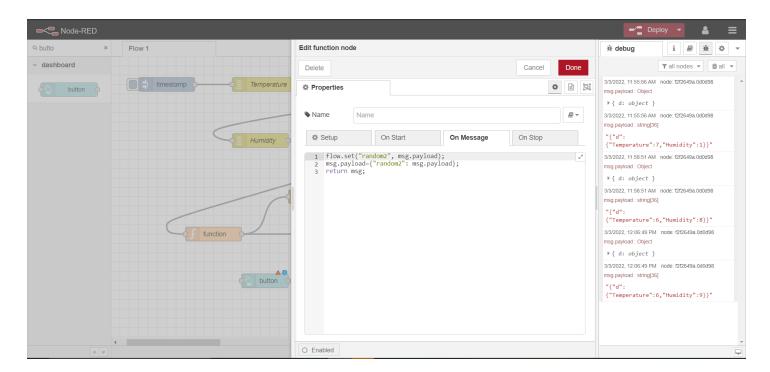








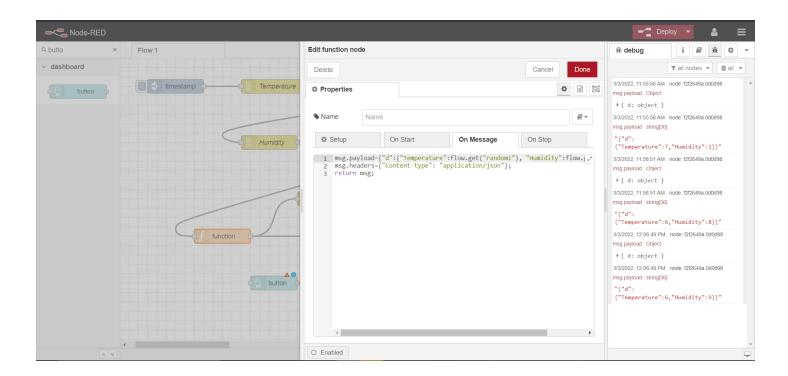








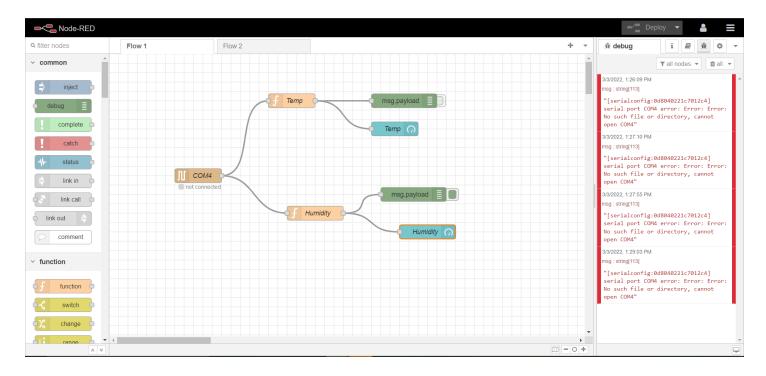




Gauge Circuit:





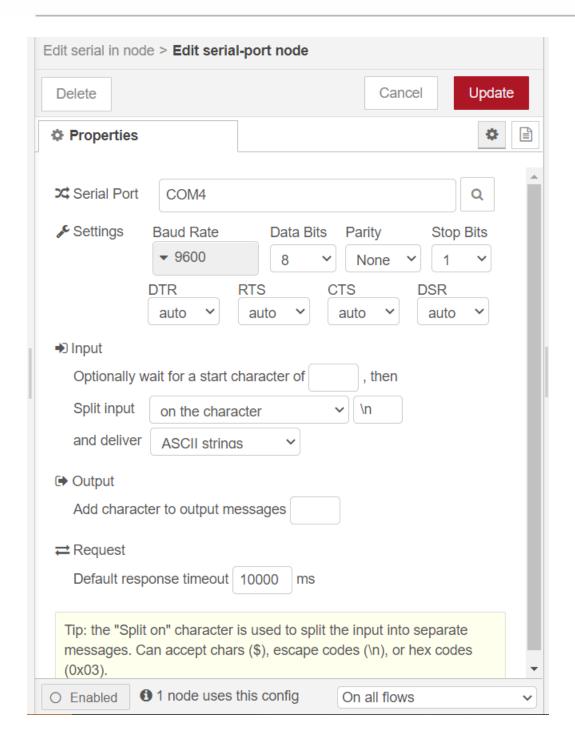


Serial Port:





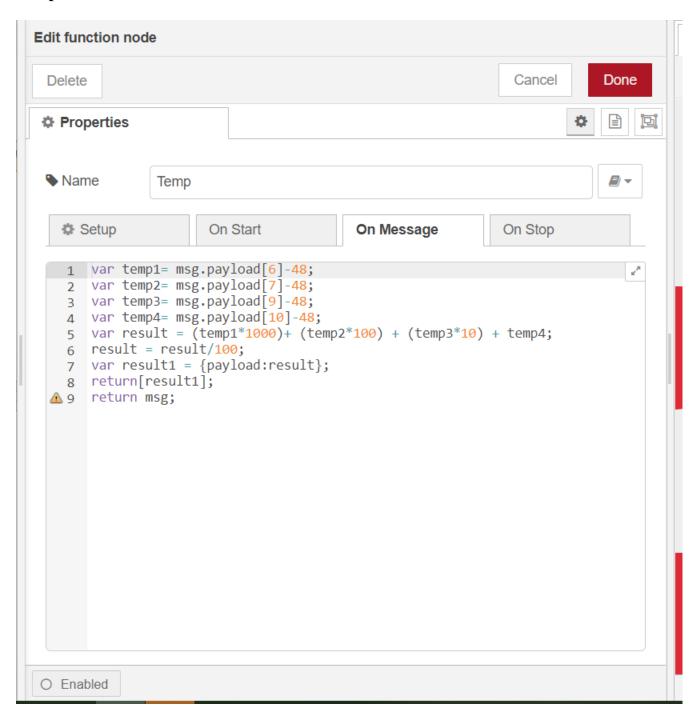








Temperature Part:







Delete	Cancel
Properties	
⊞ Group	[Home] Temp
ূ্র্ট্র Size	auto
≡ Туре	Gauge
<u> Label</u>	temp
₹ Value format	{{value}}
£ Units	units
Range	min 0 max 10
Colour gradient	
Sectors	0 optional 10
Name Name	Temp







Edit gauge nod	e > Edit dashboard group n	node
Delete		Cancel Update
Properties		
Name Name	Temp	
⊞ Tab	Home	~
↔ Width	6	
	Display group name	
	☐ Allow group to be colla	apsed
		•
O Enabled	1 node uses this config	On all flows







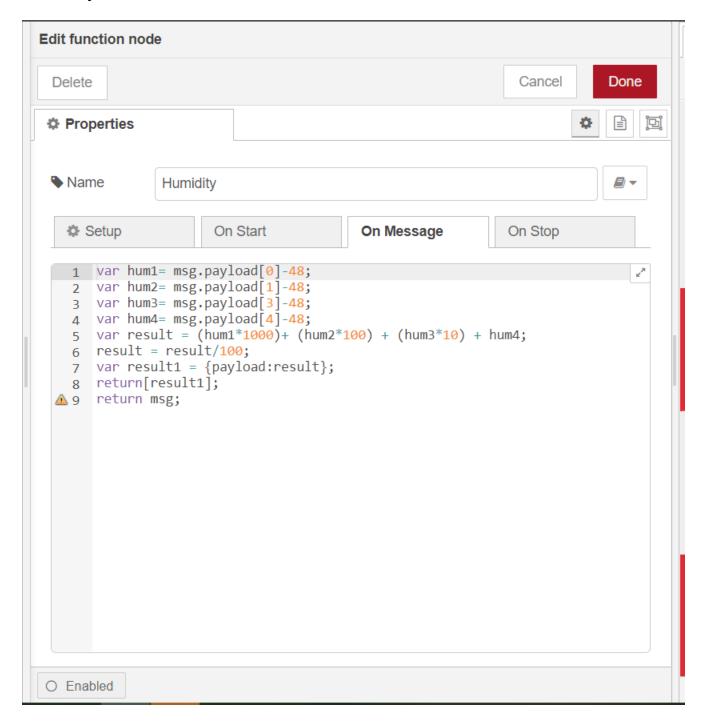
Properties			
			•
Name Name	Home		
lcon	dashboard		
⊘ State	Enabled		
Nav. Menu	Visible		
or a Font Awes	some icon (e.g. 'fa-fire')	nl Design icon (e.g. 'check , or a <u>Weather icon</u> (e.g.	wi-wu-
	ne full set of google mat g. 'mi-videogame_asset	terial icons if you add 'mi- '.	to the







Humidity:





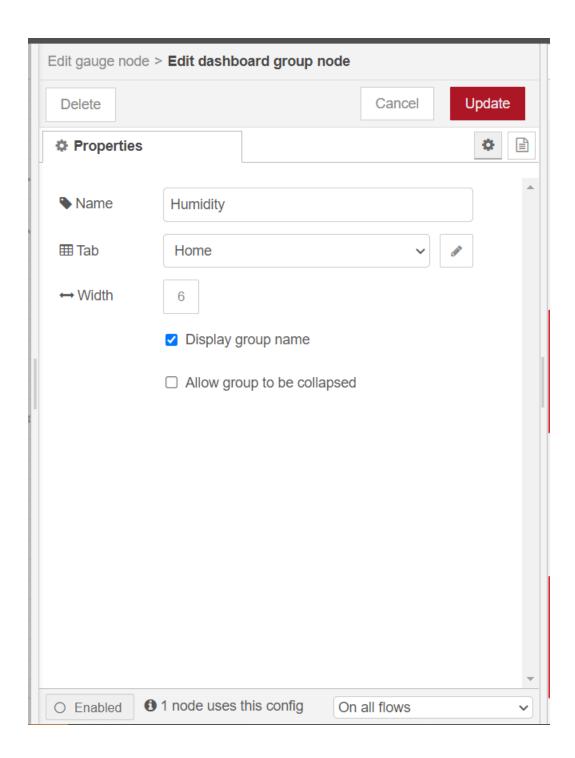


Edit gauge node	
Delete	Cancel
Properties	
⊞ Group	[Home] Humidity
ূুট্ৰা Size	auto
≡ Type	Gauge
Ţ Label	Humidity
Ĭ Value format	{{value}}
Ţ Units	units
Range	min 0 max 10
Colour gradient	
Sectors	0 optional 10
Name Name	Humidity
O Enabled	















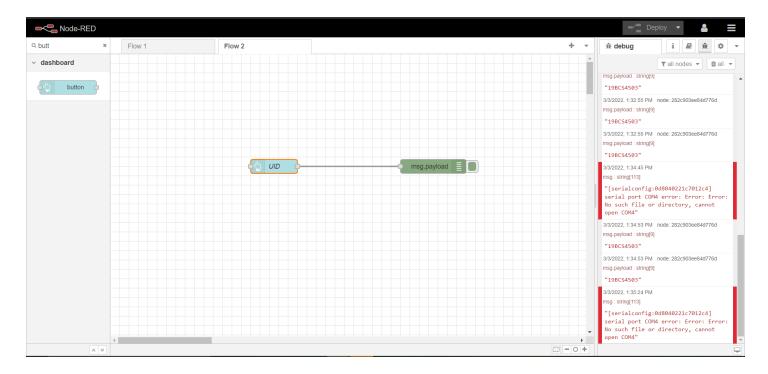
Edit gauge node >	Edit dashboard group	node > Edit dashboard tab node
Delete		Cancel Update
Properties		
№ Name	Home	
≧ Icon	dashboard	
⊘ State	Enabled	
Nav. Menu	∇ Visible	
		Design icon (e.g. 'check', 'close') or a Weather icon (e.g. 'wi-wu-
	e full set of google mate . 'mi-videogame_asset'.	erial icons if you add 'mi-' to the
O Enabled 6	2 nodes use this config	On all flows







Button Circuit:







Button Part:

Edit button node						
Delete	Cancel	Done				
Properties	•					
⊞ Group	[Button Home] Button Home	^				
ը Size	auto					
™ Icon	optional icon	optional icon				
Ĭ Label	19BCS4503					
Tooltip	optional tooltip					
♦ Color	optional text/icon color					
♦ Background	optional background color					
	, send:					
Payload	▼ ^a _z 19BCS4503					
Topic	▼ msg. topic					
→ If msg arrives on input, emulate a button click: □						
Name Name	UID	~				
O Enabled						





Edit button node >	Edit dashboard group no	ode	
Delete		Cancel Update	
Properties		•	
Name Name	Button Home	^	
⊞ Tab	Button Home	∨	
↔ Width	6		
	✓ Display group name		
	☐ Allow group to be collap	osed	
O Enabled 0	1 node uses this config	On all flows	







Edit button node >	Edit dashboard group no	ode > Edit dashboard tab node	
Delete		Cancel Update	
Properties		•	
♦ Name	Button Home		
≧ Icon	dashboard		
	Enabled		
Nav. Menu	∇ Visible		
or a <u>Font Awes</u> sunny'). You can use the	ome icon (e.g. 'fa-fire'), o	resign icon (e.g. 'check', 'close') ra Weather icon (e.g. 'wi-wu- al icons if you add 'mi-' to the	
O Enabled 1	1 node uses this config	On all flows	~

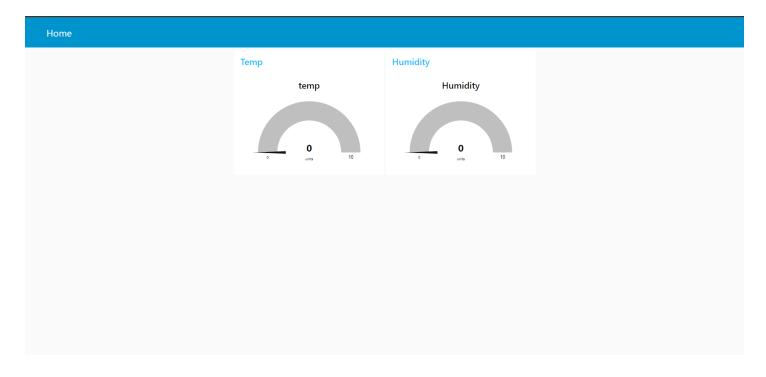






3. Output: Image of sample output to be attached here

Gauge Output:







Button UI:

≡ Button Home	
	Button Home
	19BCS4503





Learning outcomes (What I have learnt):

- 1. Making button and gauges in node red application.
- 2. Displaying temperature and humidity sensor data in node red.
- **3.** Displaying the outputs through UI dashboard of Node Red.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

