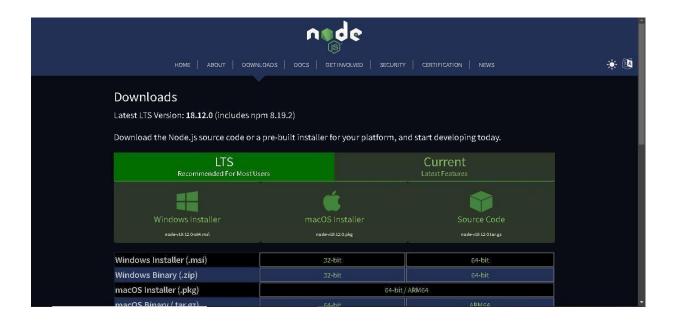
SPRINT 2

Date	November 10, 2022		
Team ID	PNT2022TMID36352		
Project Name	Real-Time River Water Quality		
	Monitoring and Control System		
Maximum Mark			

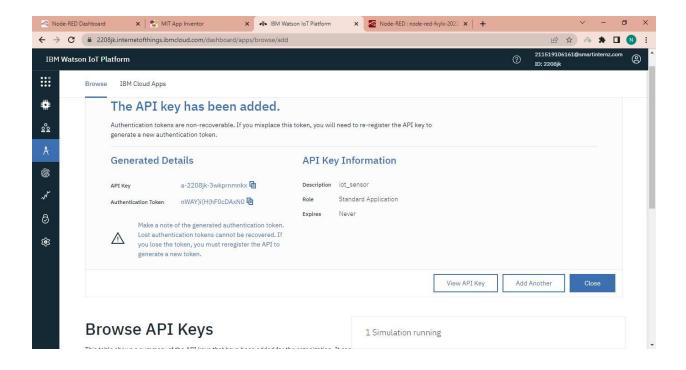
The following steps are involved:

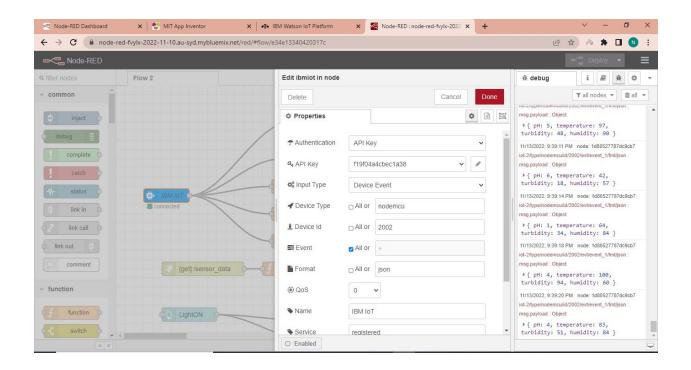
STEP 1: Download and Install node.js.



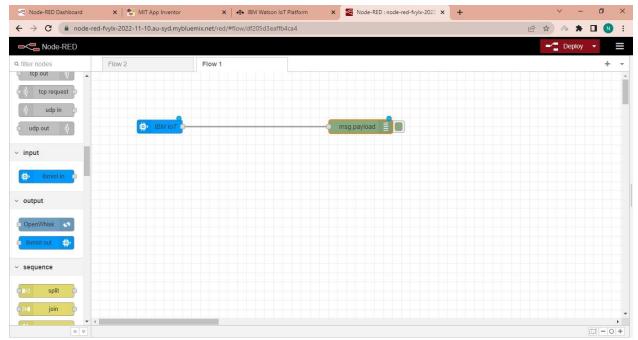
STEP 2: Setup node.js and configure command prompt for error check. Open nodered from the generated link.

STEP 3: Generating API key and Authentication token.

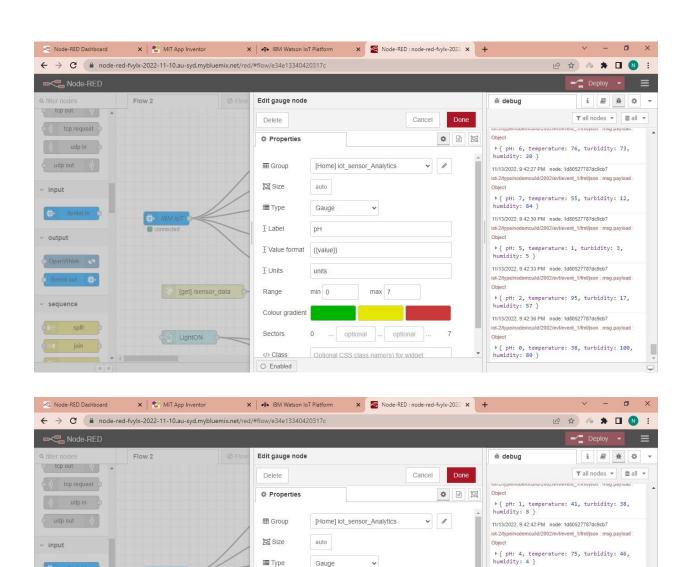




STEP 5: Connect Ibmiot in and debug 1 and deploy.



STEP 6: Edit gauge node (here the gauge nodes are named as Temperature, pH and Turbidity).



I Label

I Units

Range

Sectors

</>Class

O Enabled

Colour gradient

[get] /sensor_data

LightON

I Value format {{value}}

~ output

sequence

split

join i

temperature

Degree celcius

min 0

max 100

optional

optional

Optional CSS class name(s) for widget

11/13/2022, 9:42:45 PM node: 1d80527787dc9cb7

11/13/2022. 9:42:48 PM node: 1d80527787dc9cb7

11/13/2022, 9:42:51 PM node: 1d80527787dc9cb7

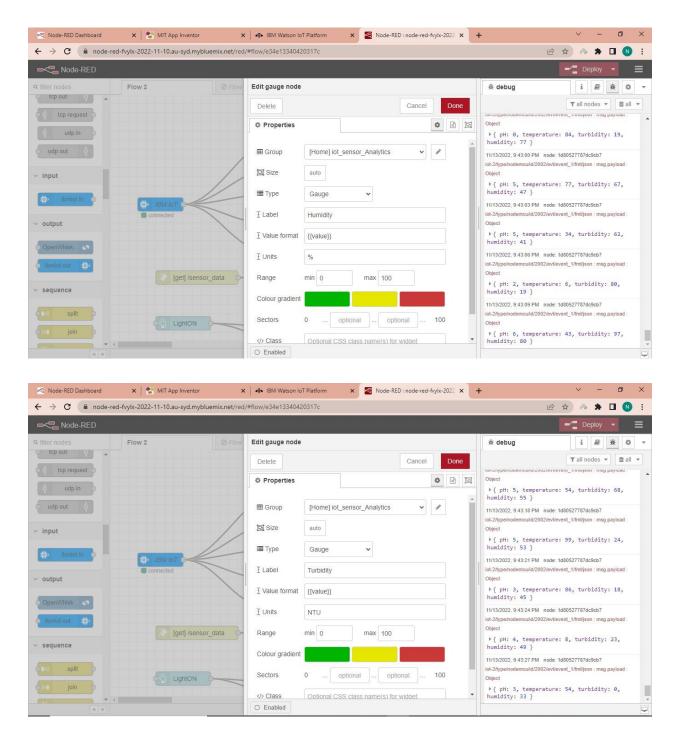
▶{ pH: 5, temperature: 28, turbidity: 50, humidity: 45 }

iot-2/type/nodemcu/id/2002/evt/event_1/fmt/json : msg.payload :

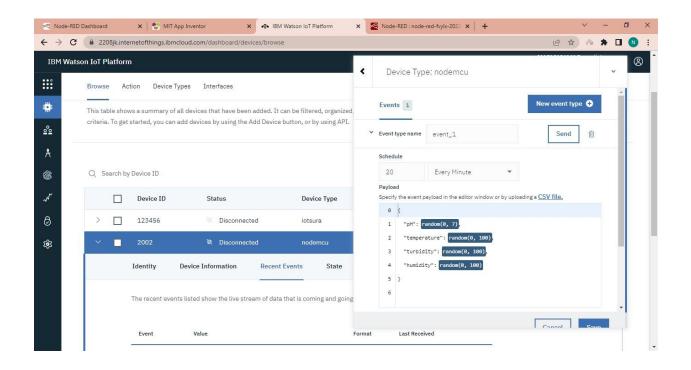
iot-2/type/nodemcu/id/2002/evt/event_1/fmt/json : msg.payload :

Object

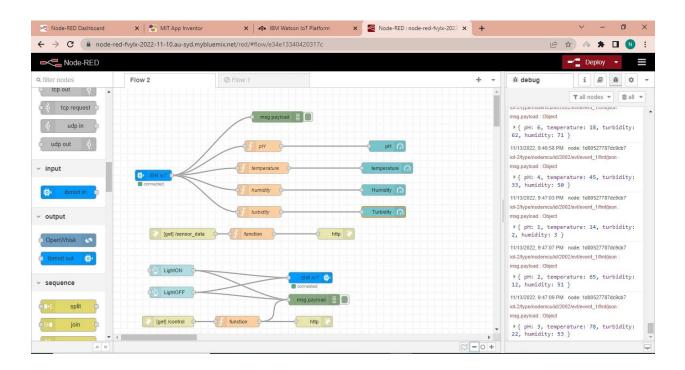
cu/id/2002/evt/event_1/fmt/json : msg.payload



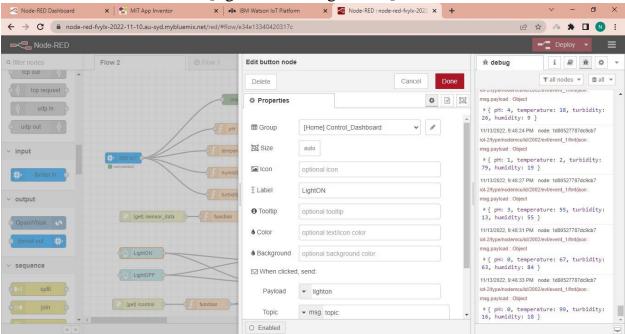
STEP 7: Simulated program to get the random values.



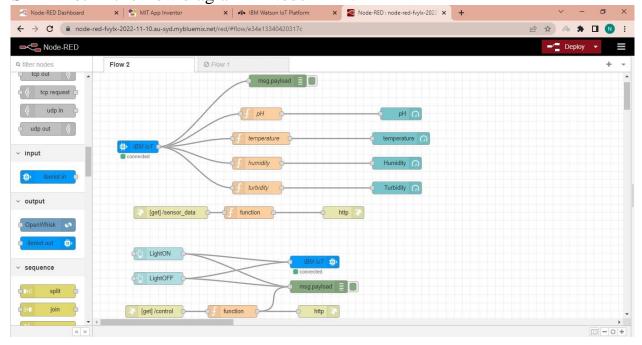
STEP 8: Generate debug message from IBM Watson IoT Platform and connect the nodes.



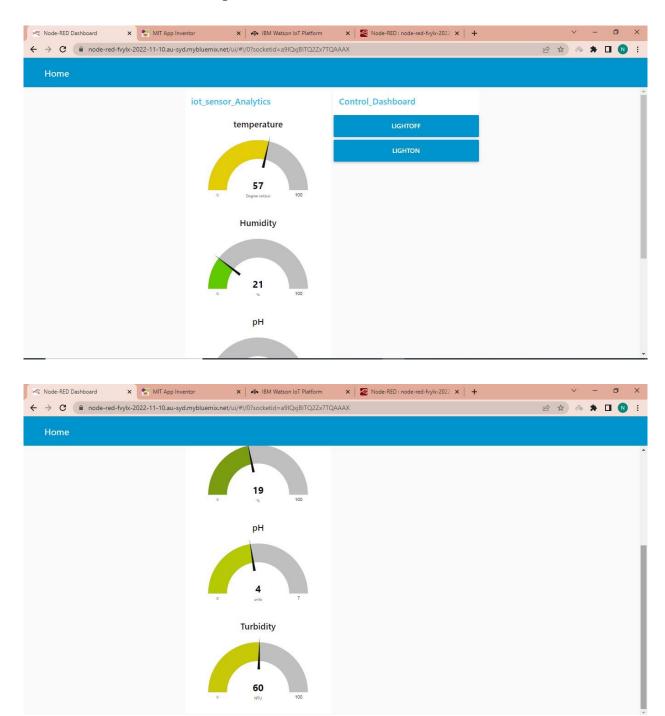
STEP 9: Edit button mode [light ON and light OFF].



STEP 10: Entire flow diagram in Node-RED.



STEP 11: Generate the output from recent events.



STEP 12: Implementing url in the function node to generate output

