## **SPRINT-2**

Date	05 November 2022
Team ID	PNT2022TMID10541
Project Name	Real Time River Water Quality Monitoring And
	Control System

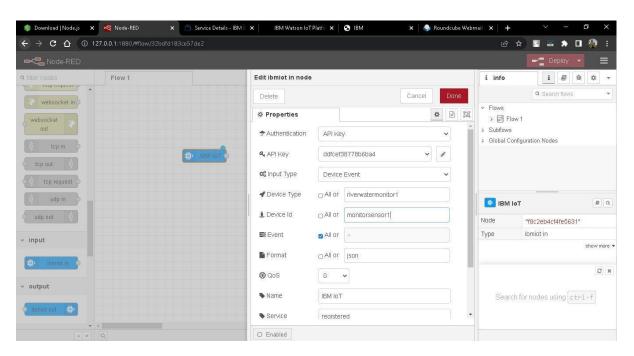
**STEP 1:** Download and Install node.js.



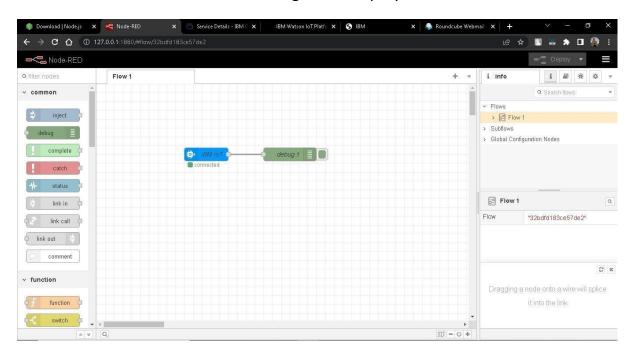
**STEP 2:** Setup node.js and configure command prompt for error check. Open node-red from the generated link.

## **STEP 3:** Generating API key and Authentication token.

## STEP 4: Edit IBM IOT in node.



**STEP 5:** Connect Ibm iot in and debug 1 and deploy.



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

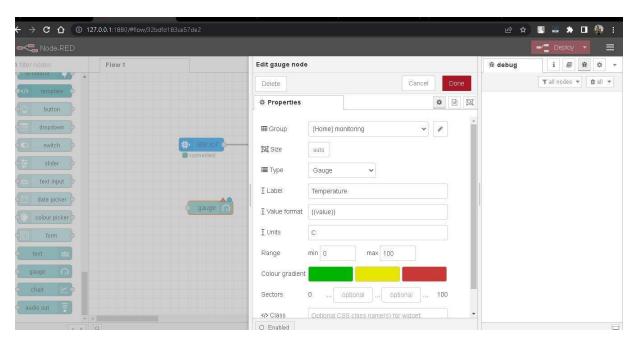


Fig 1

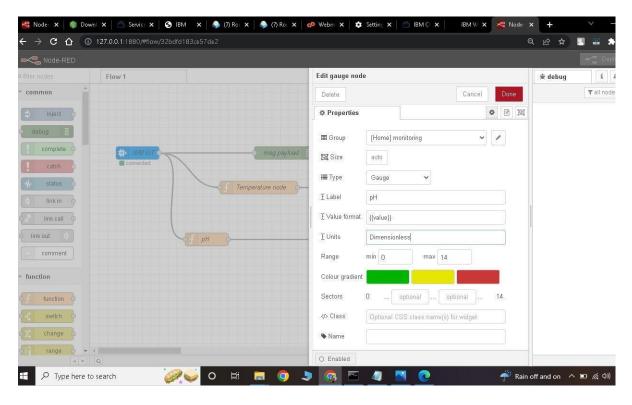


Fig 2

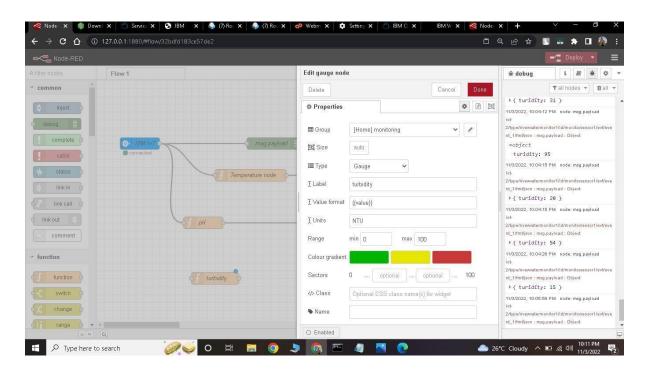
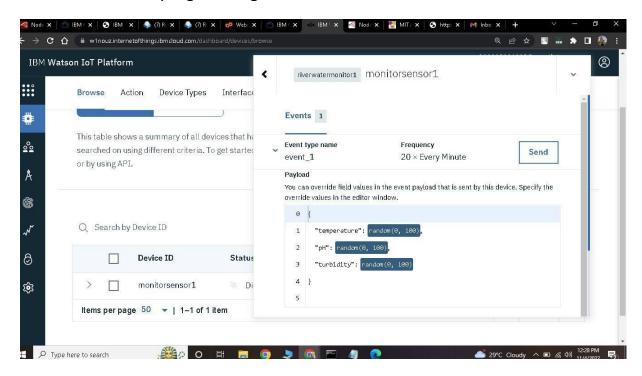
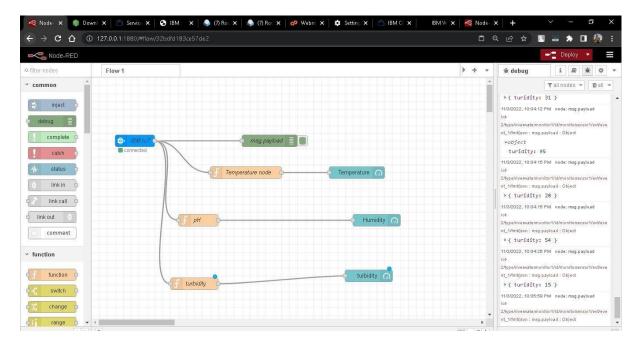


Fig 3

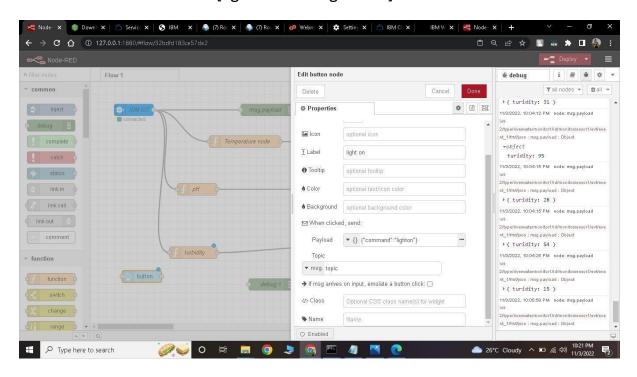
**STEP 7:** Simulated program to get the random values.



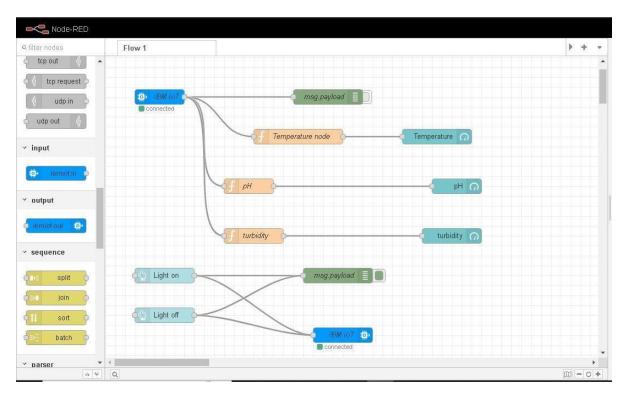
**STEP 8:** Generate debug message from IBM Watson IoT Platform and connect the nodes.



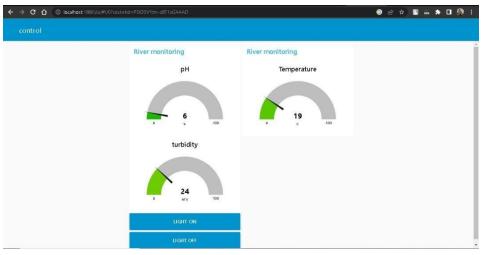
STEP 9: Edit button mode [light ON and light OFF].

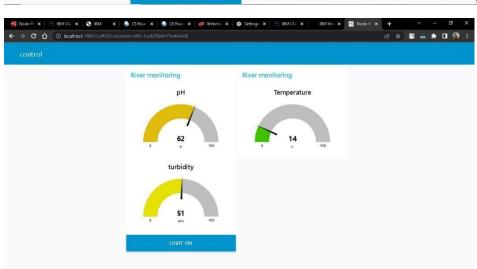


**STEP 10:** Entire flow diagram in Node-RED.



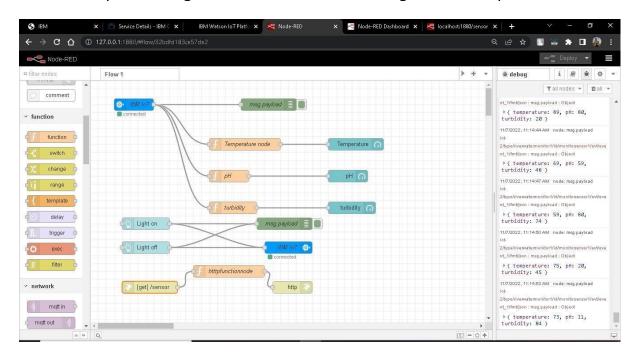
**STEP 11:** Generate the output from recent events.

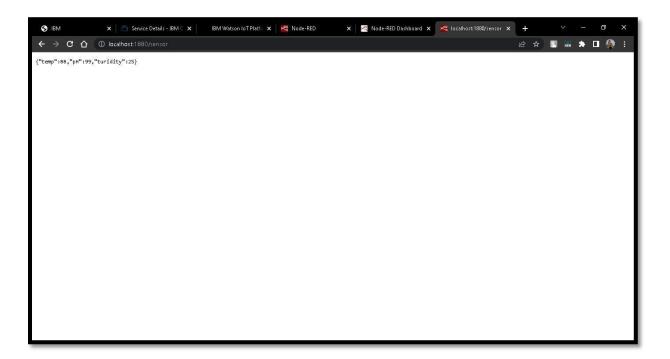






**STEP 12**: Implementing url in the function node to generate output.





## **URL** are:

localhost:1880/ui

localhost:1880/sensor

**STEP 13:** MIT app inverter to design the app.



