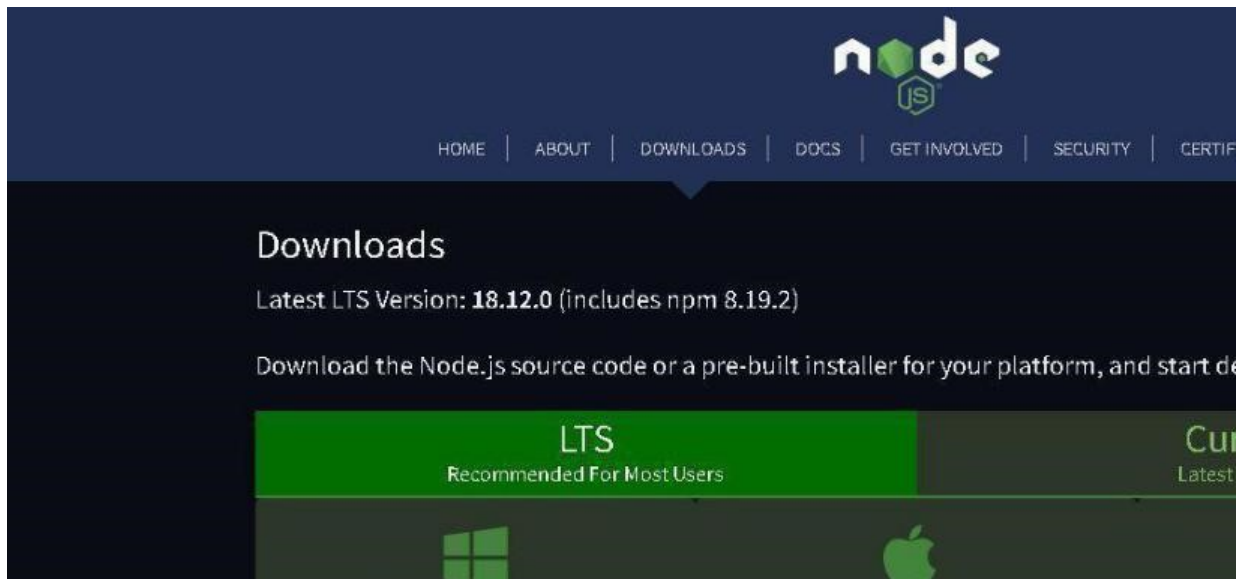# SPRINT 2

TEAM ID	PNT2022TMID12734
PROJECT NAME	Real-time River Water Quality Monitoring and Control System

The following steps are involved:

STEP 1: Download and Install node.js.

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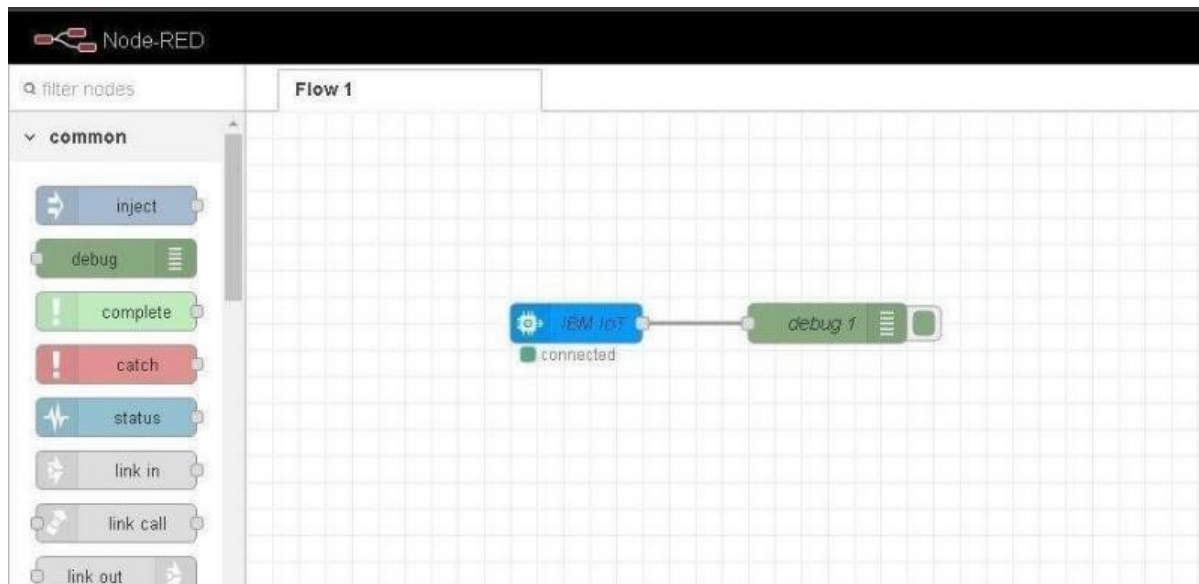Open node-red from the generated link.

STEP 3: Generating API key and Authentication token.
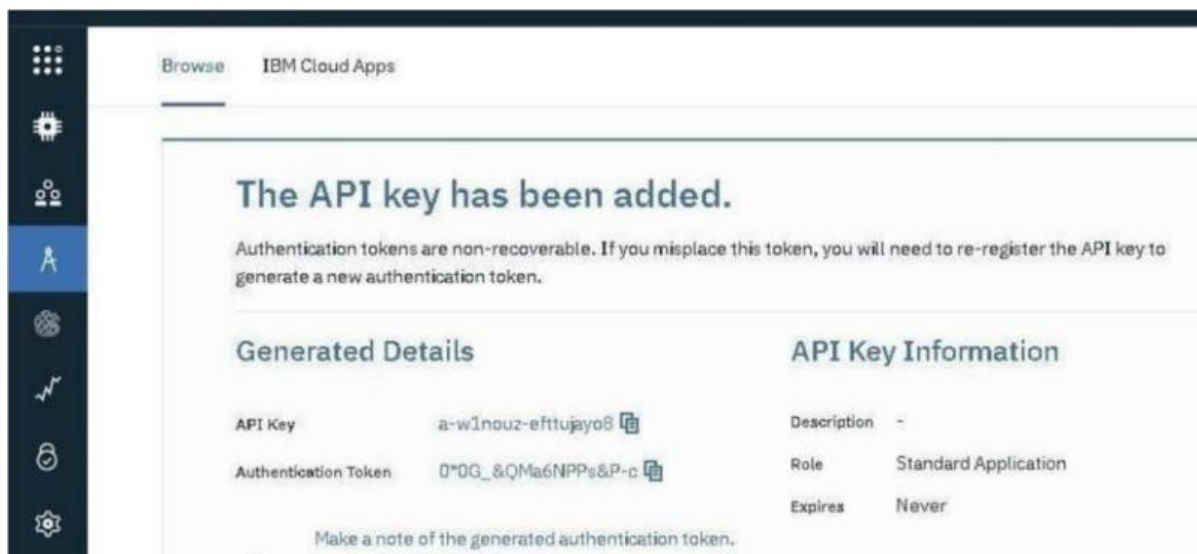
STEP 4: Edit Ibmiot in node.
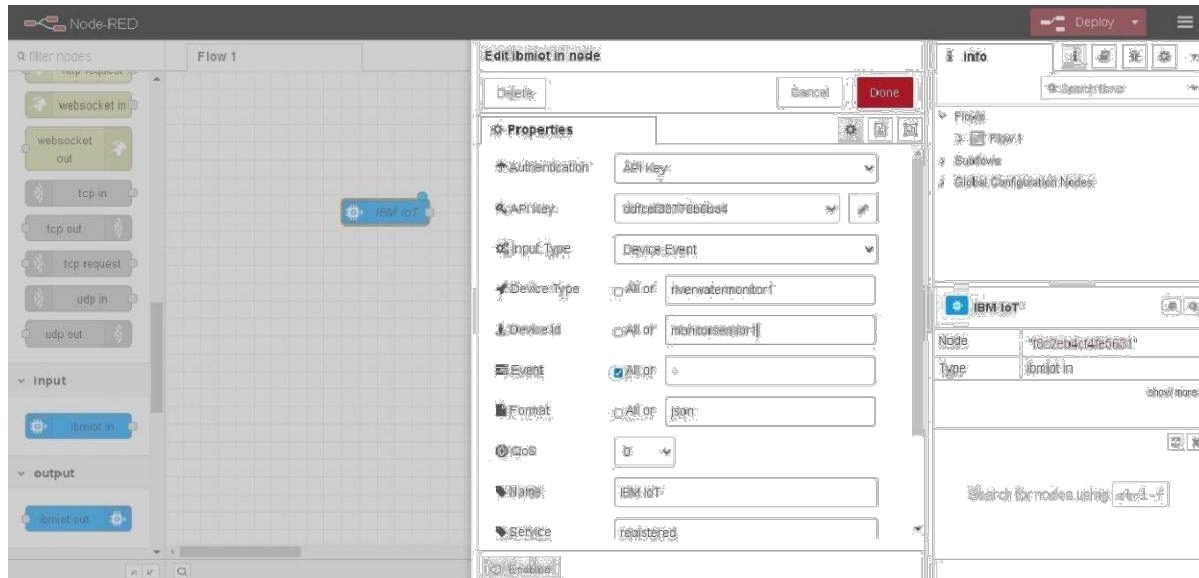
STEP 5: Connect Ibmiot in and debug 1 and deploy.

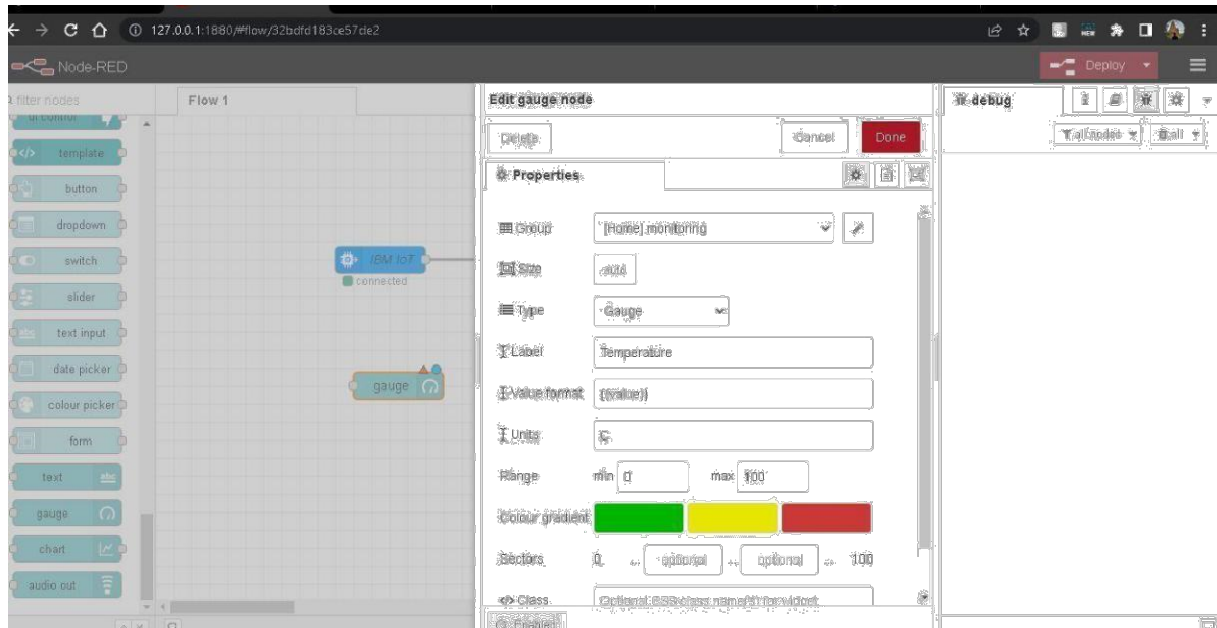**STEP 6:** Edit gauge node (here the gauge nodes are named as Temperature, pH and Turbidity).
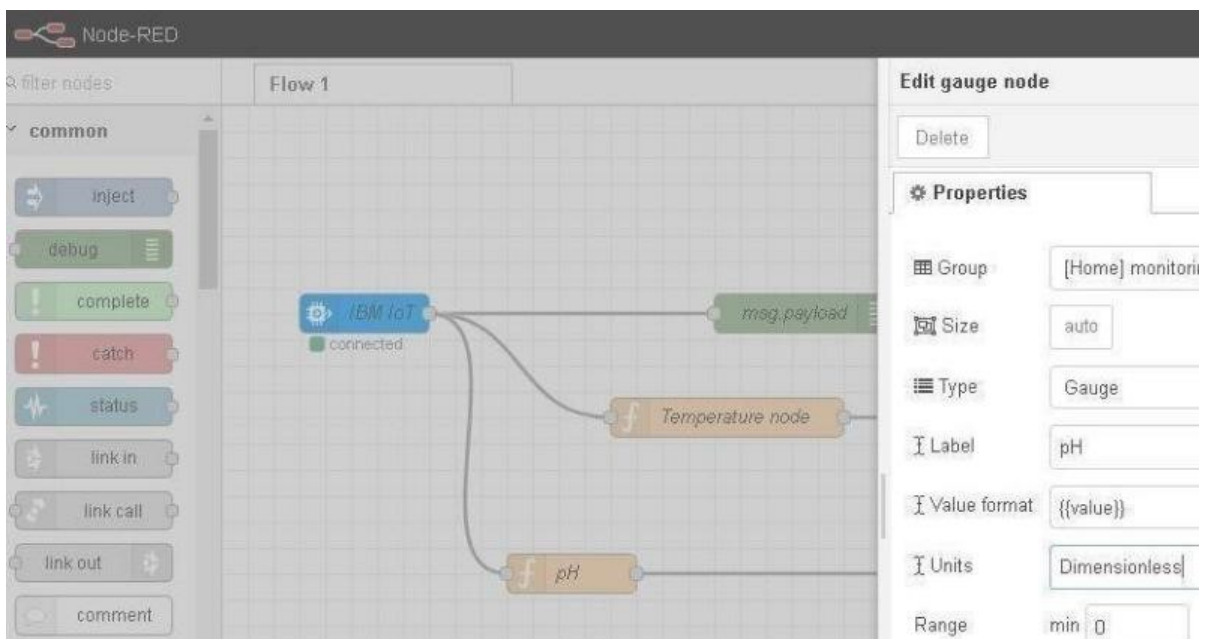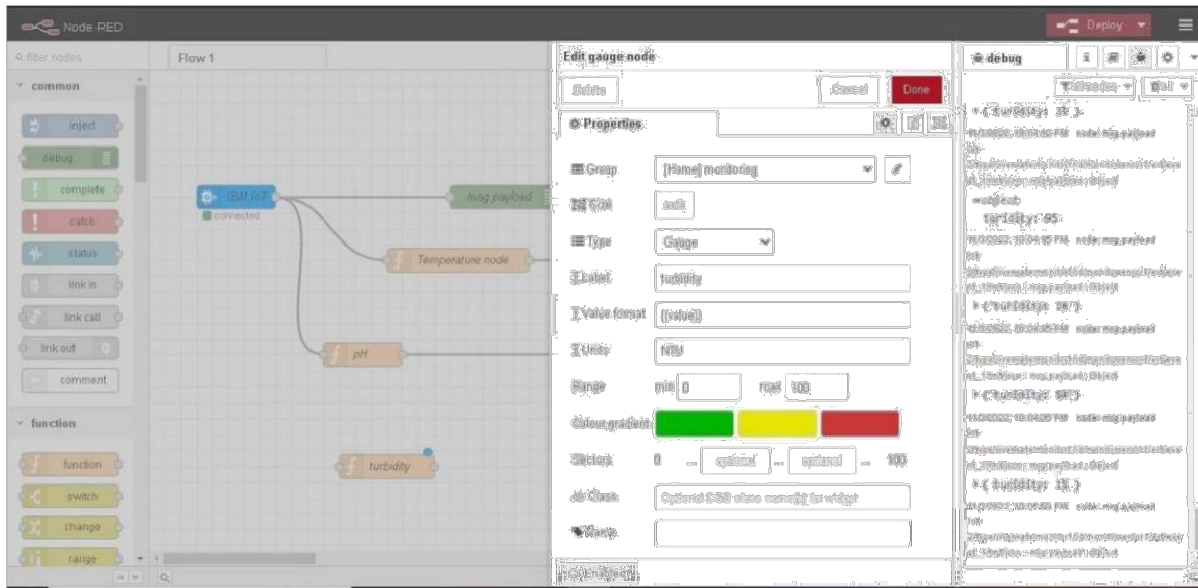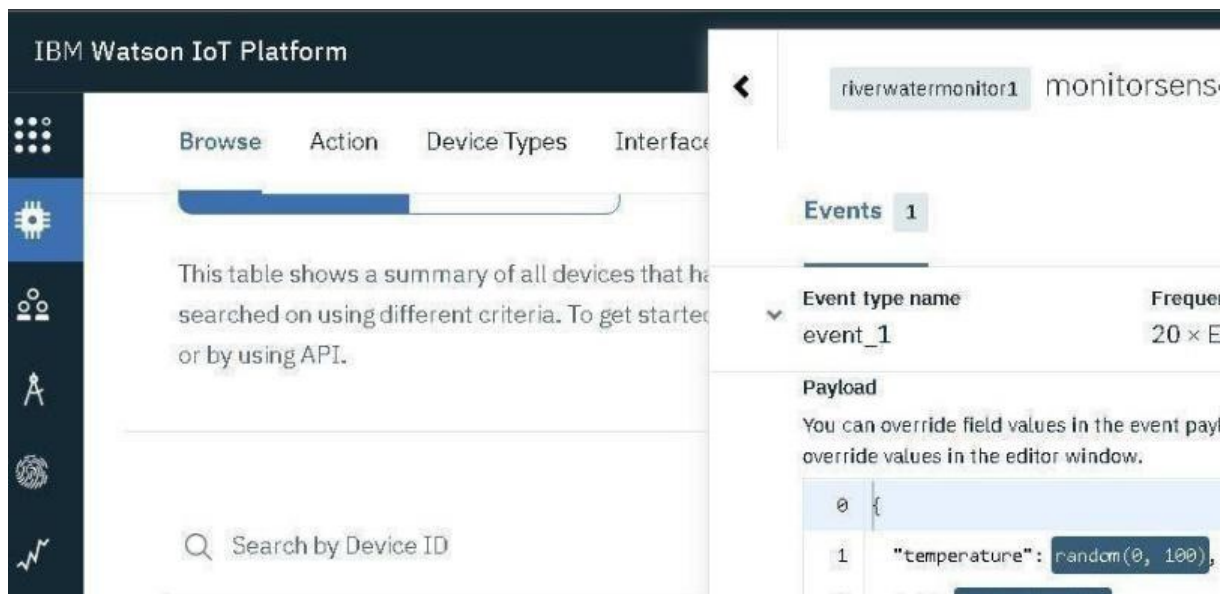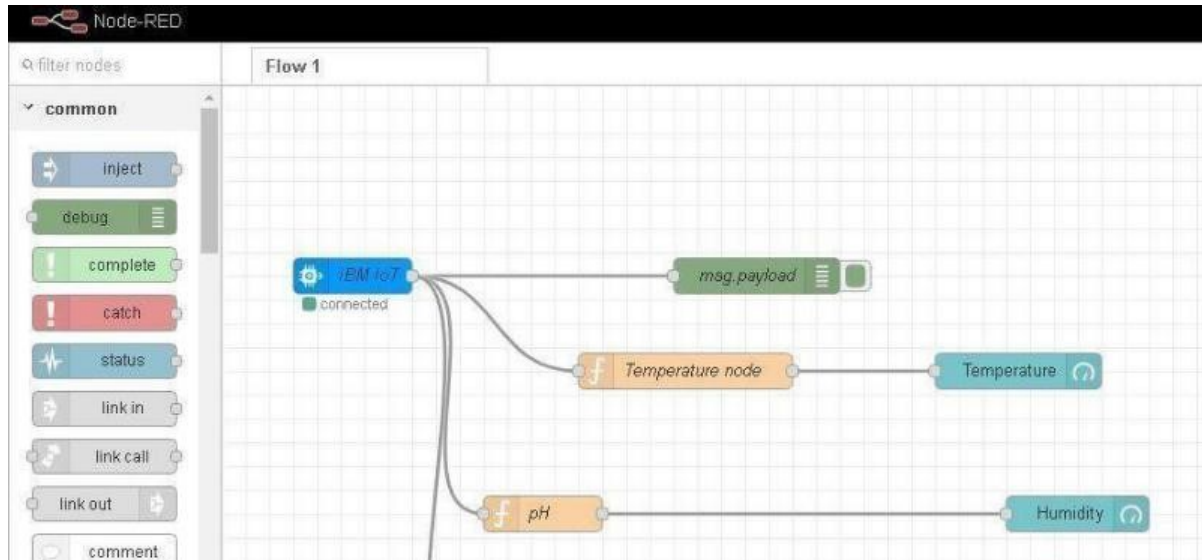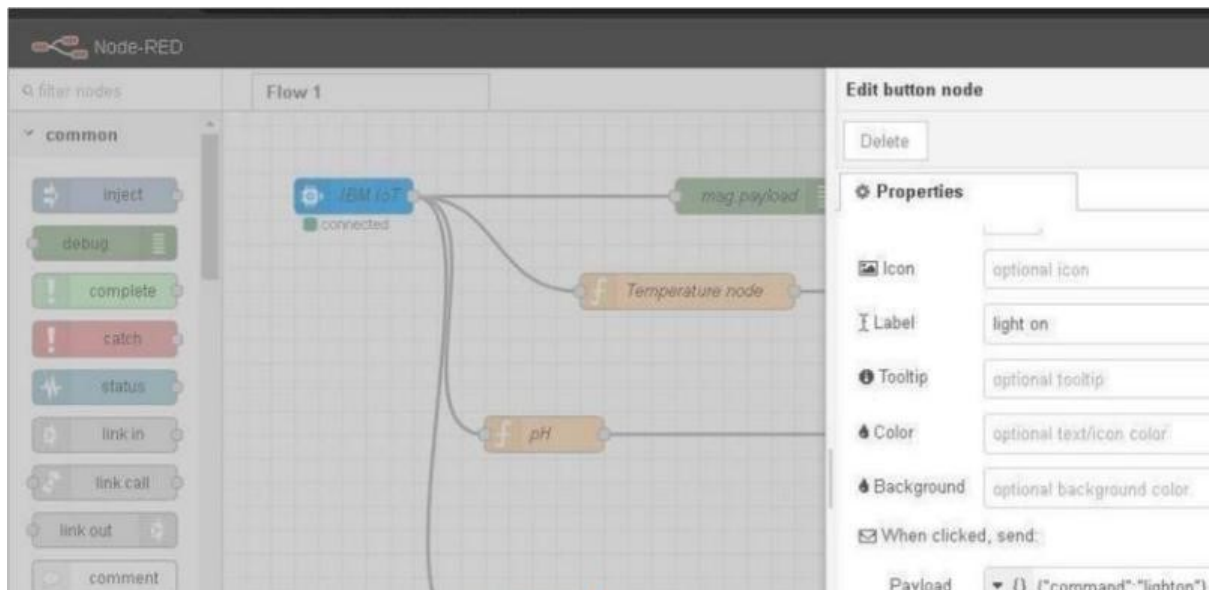
Fig 1

Fig 2

Fig 3

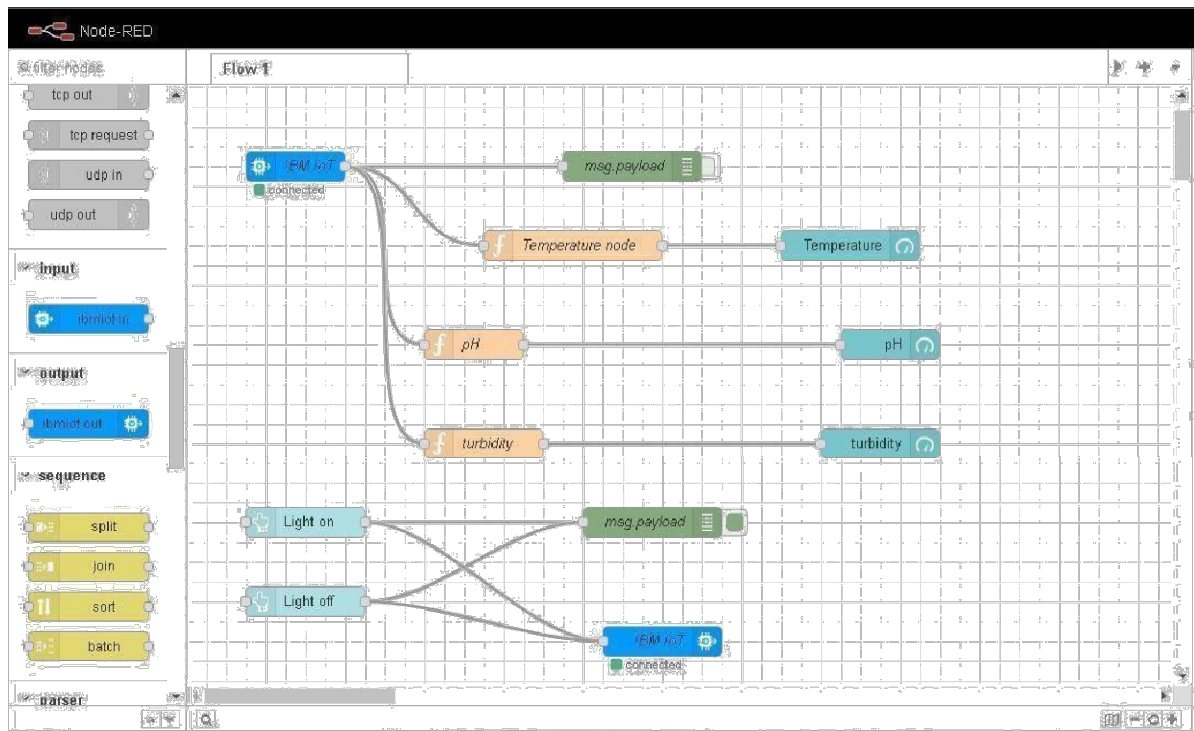**STEP 7:** Simulated program to get the random values.

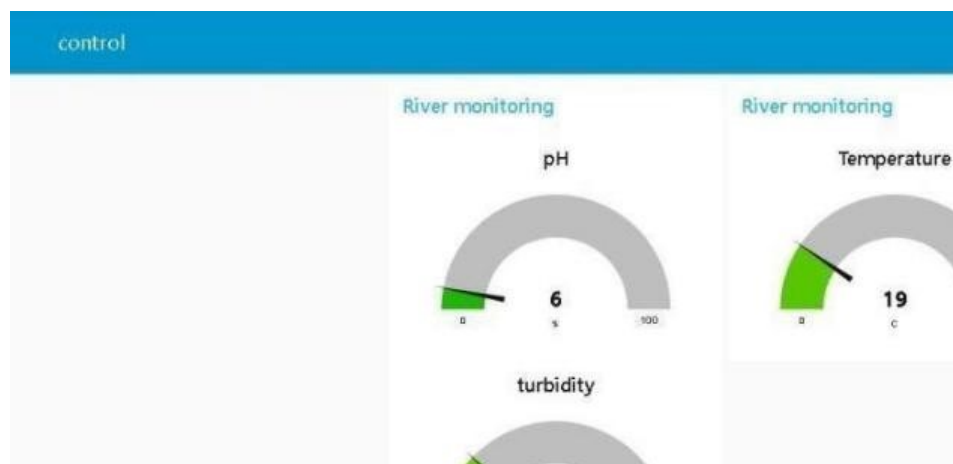**STEP 8:** Generate debug message from IBM Watson IoT Platform and connect the nodes.

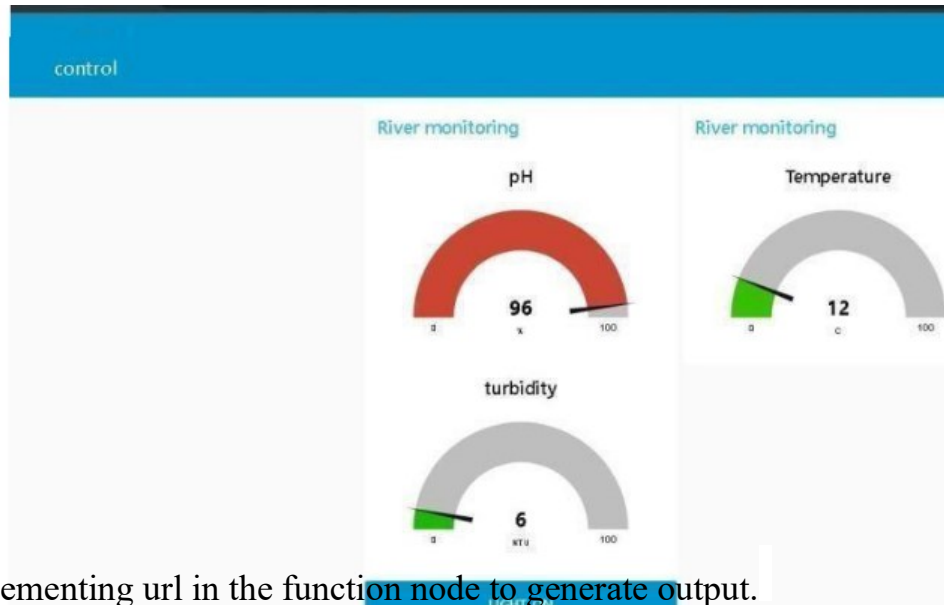**STEP 9:** Edit button mode [light ON and light OFF].

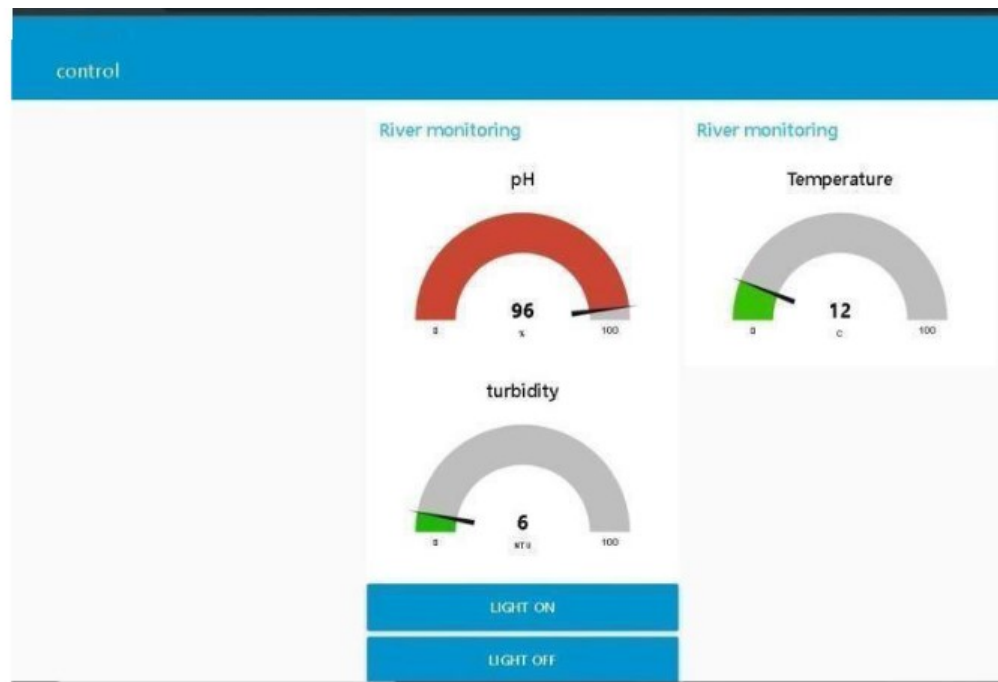**STEP 10:** Entire flow diagram in Node-RED.

STEP 11: Generate the output from recent events.

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

{"temp":88,"pH":99,"turidity":25}

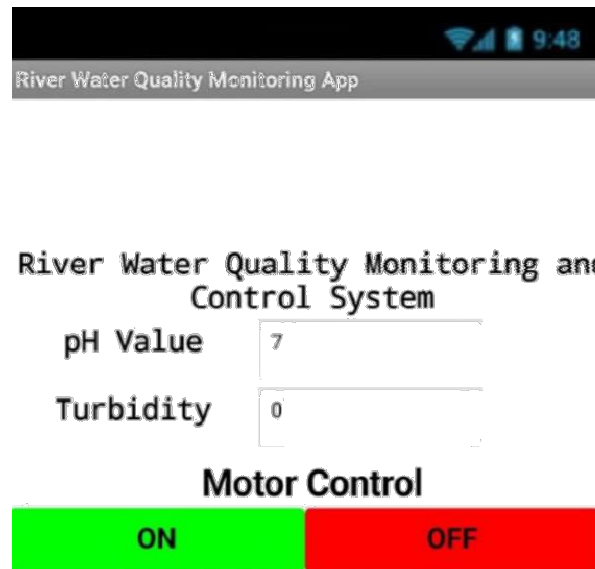Step 13: MIT app inverter to design the app.

Fig 1

Fig 2

Fig 3