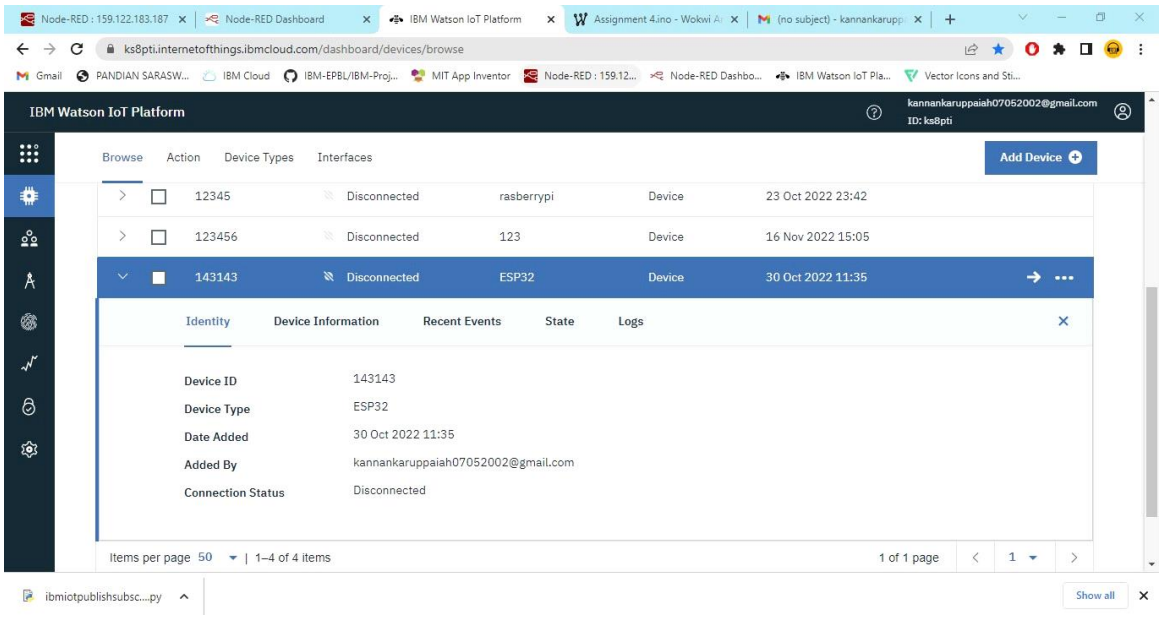
WORK FLOW

Team ID	PNT2022TMID11410
Project Name	Real-time river water quality monitoringand control system

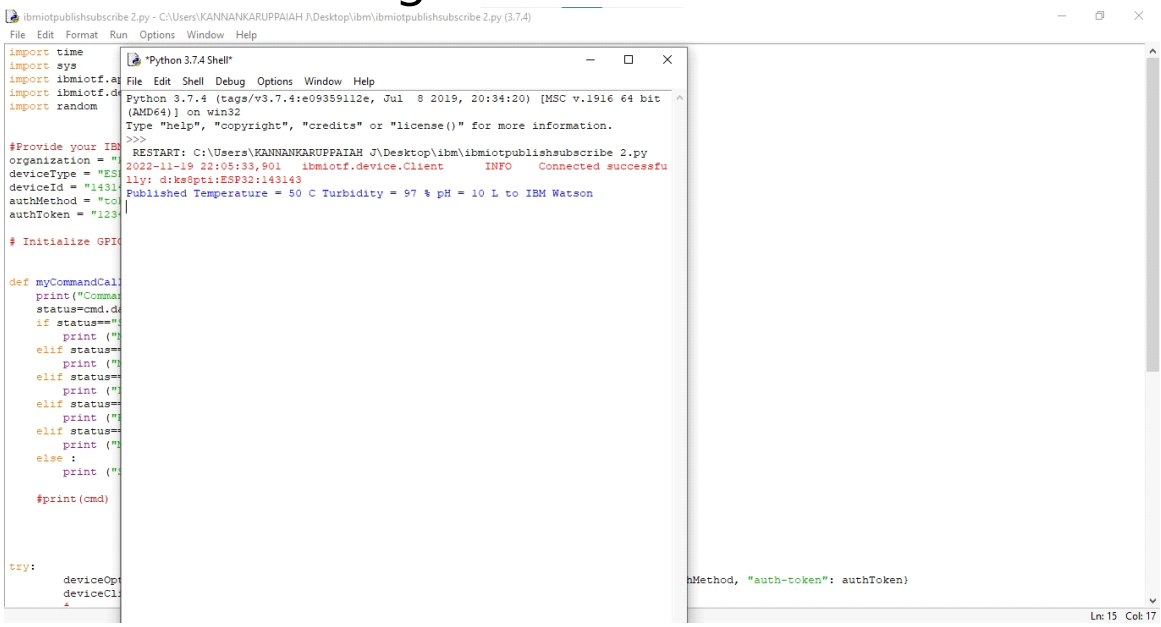
COMMUNICATION AMONG MIT APP, NODE-RED,IBM IOT WATSON AND PYTHON

Python code:

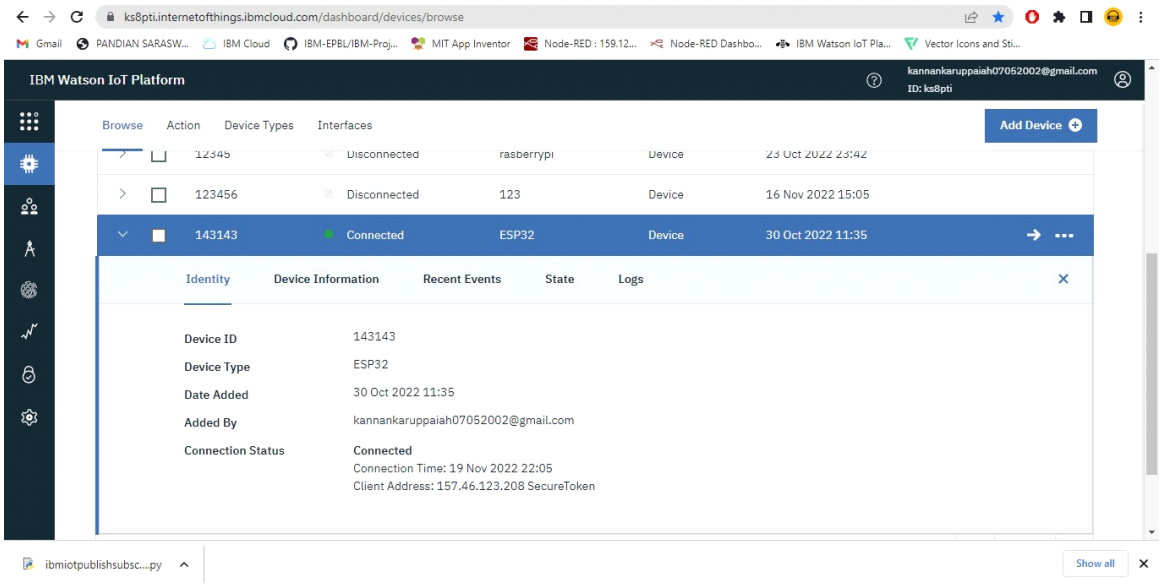
Before Run the python code, The IOT platform isdisconnected



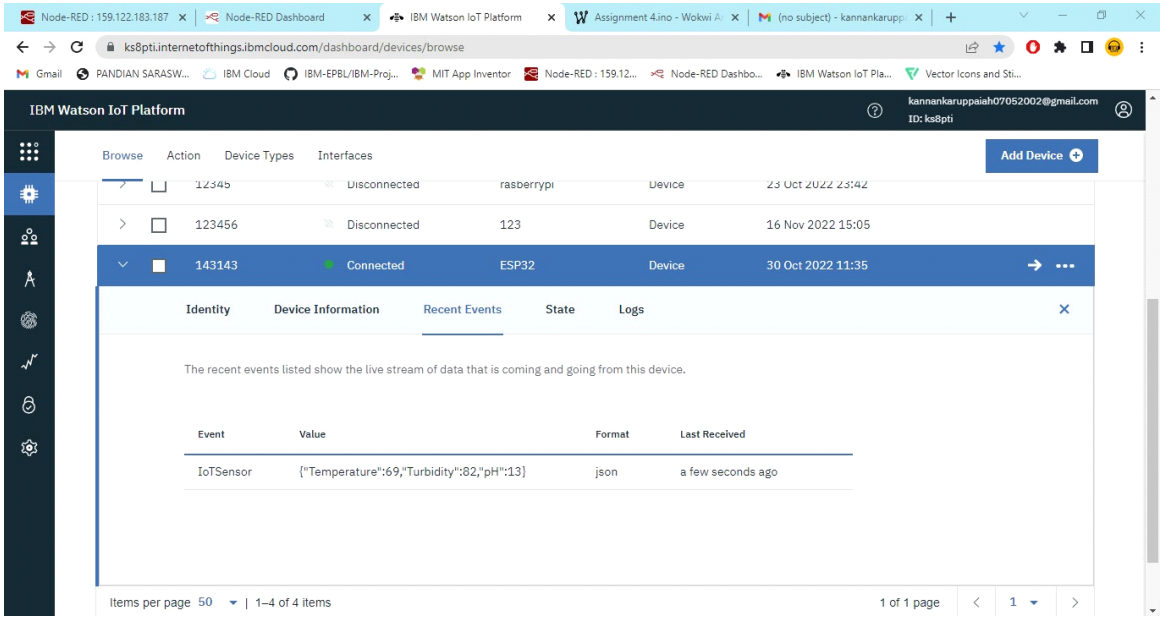
Run the Python code:
After running the python code the data's areshowing in IDLE



Now the IBM IoT Watson platform is connected



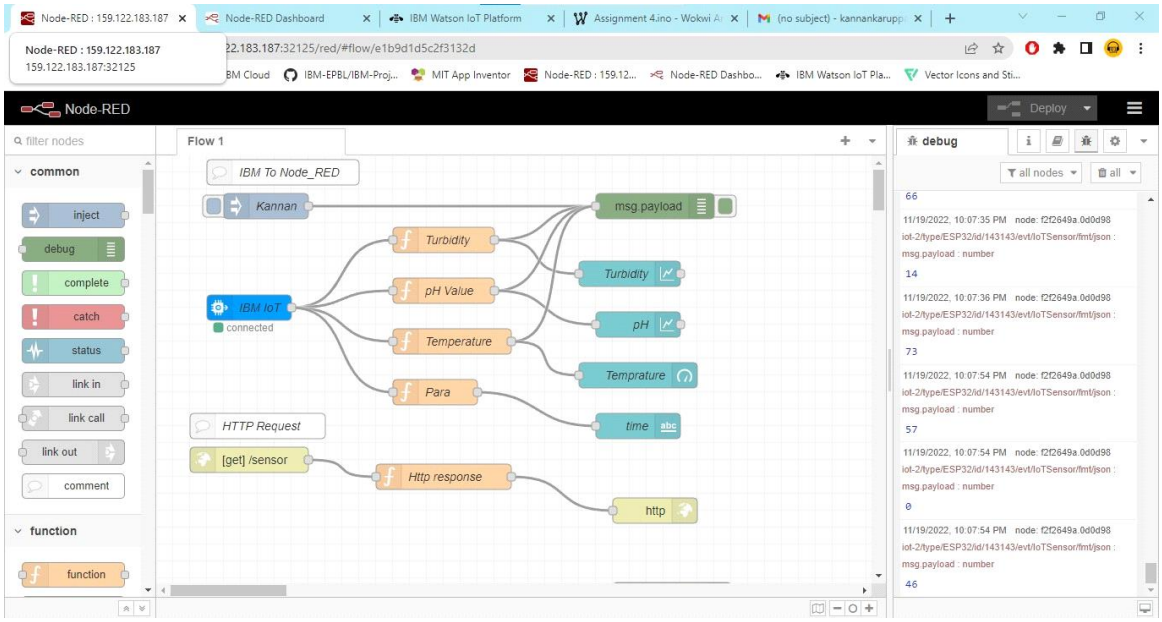
IoT Device ESP32 is connected with python code , Then the data's are collected and shown in recentevents



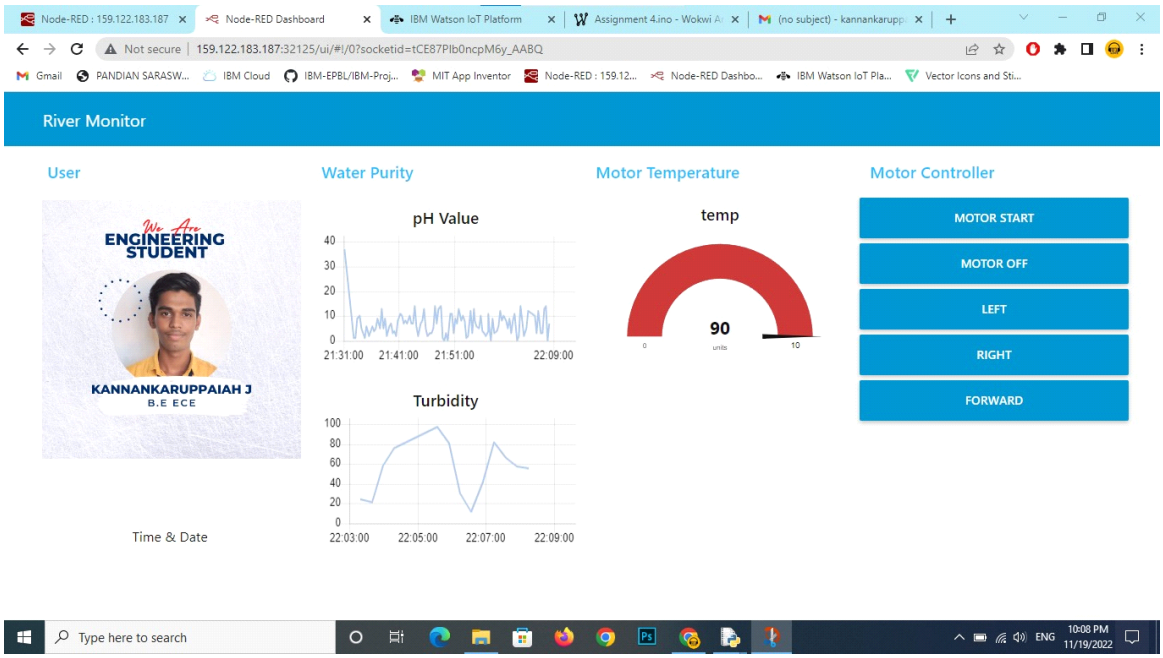
The Node-RED is connected with the IBM IoTplatform .

IBM IoT is pass the data to the Node-Red.

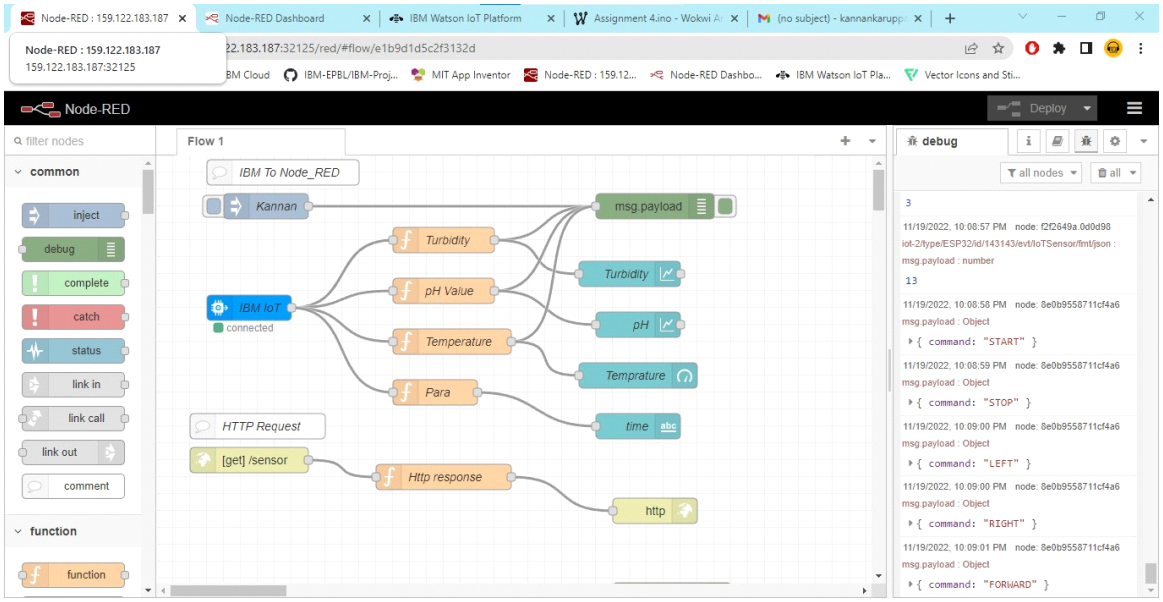
Node-RED is collected the all data and display indebug window



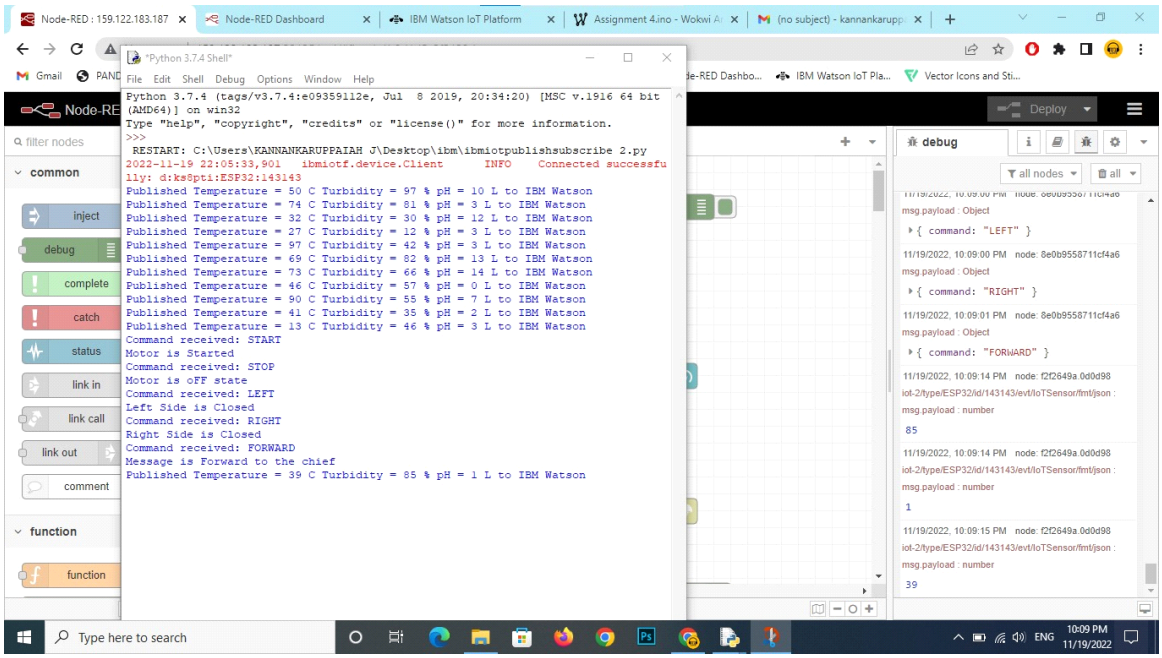
Node-RED Dashboard is Showing every data. When we click the buttons in dashboard the resultwill be publish both Node-RED and Python



Node-RED OUTPUT



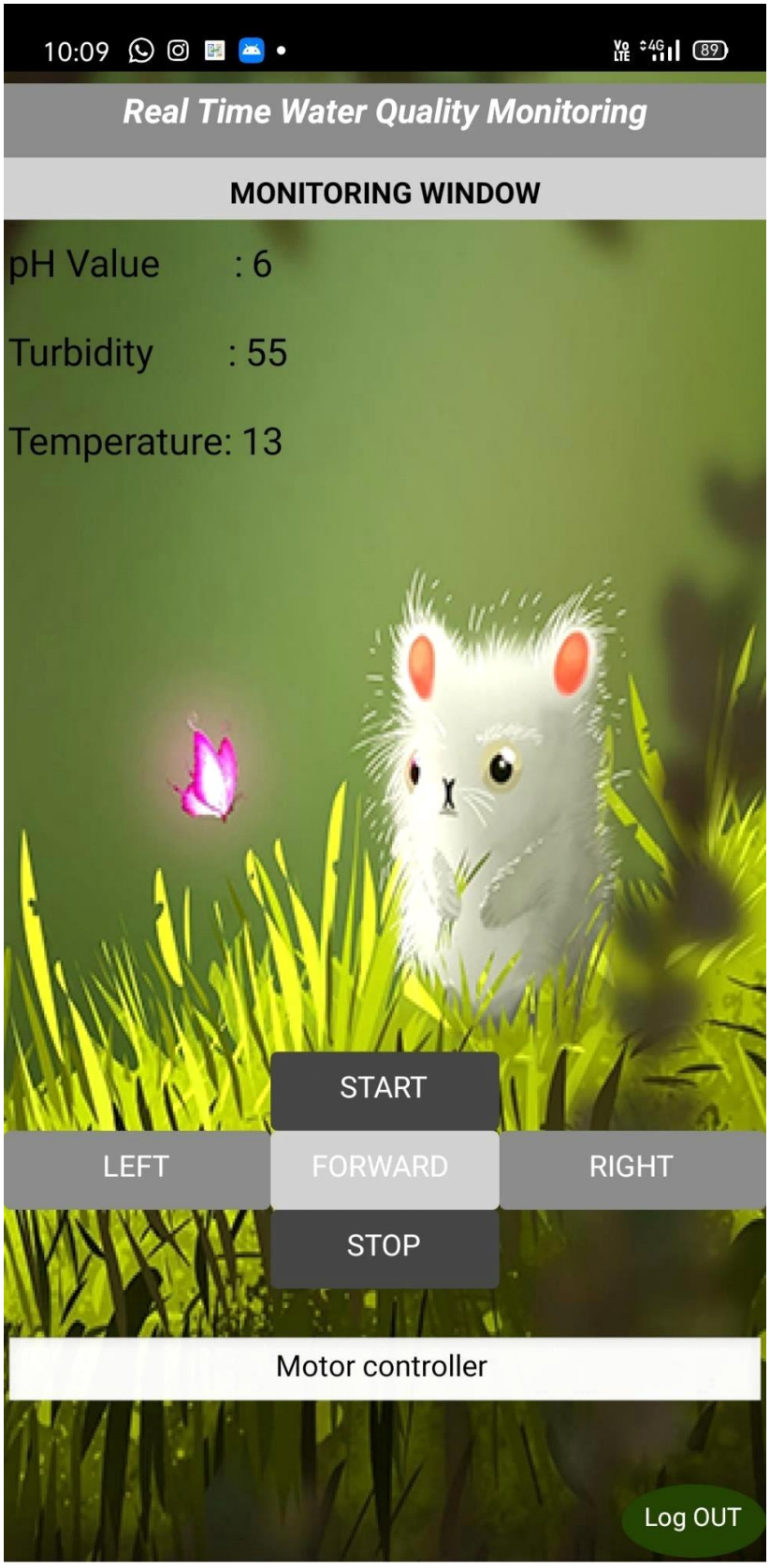
Python OUTPUT



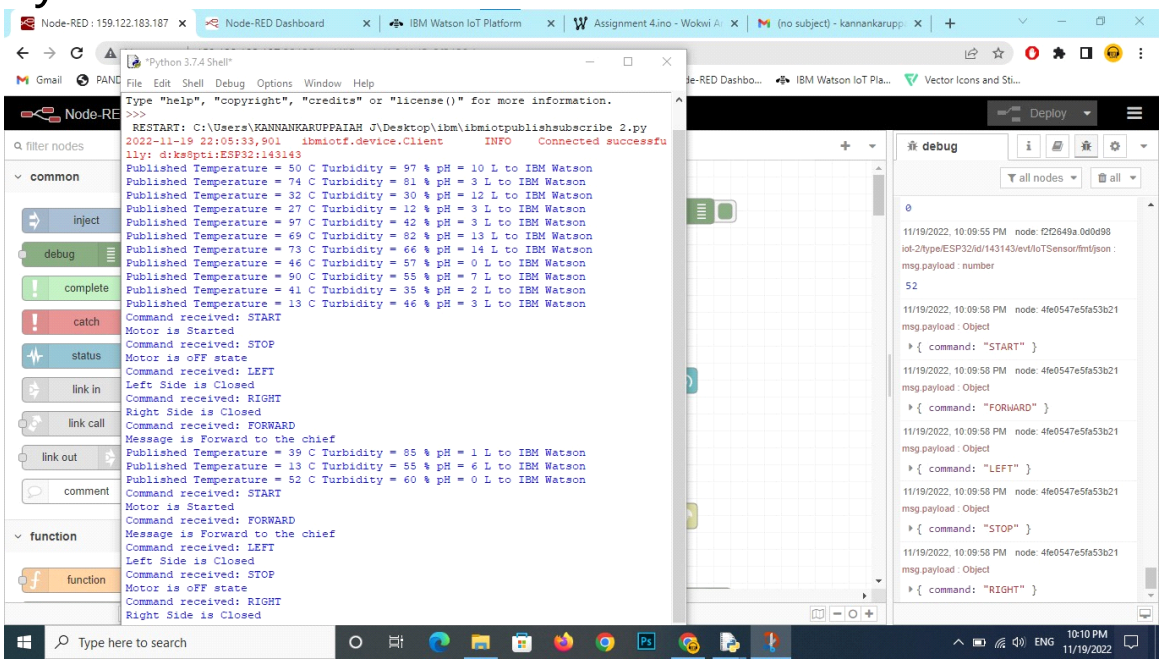
This is my mobile app screen.

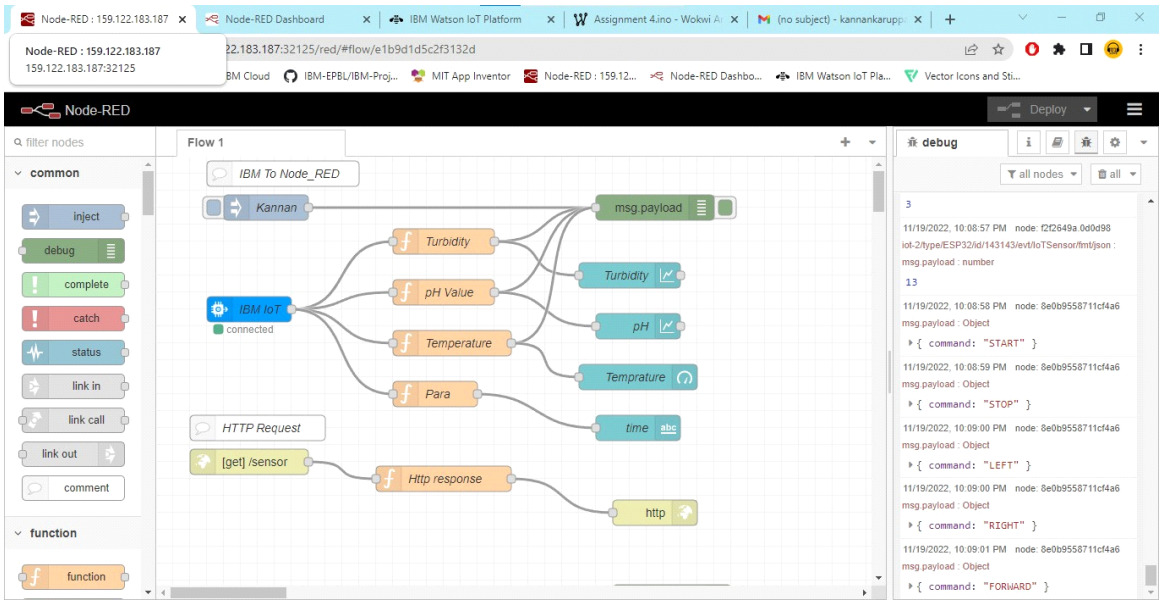
Its show the pH and Turbidity values of water andtemperature of motor.

When I'm clicking the control buttons in this screen the result are publish in Node-RED andpython .


10:09
Real Time Water Quality Monitoring
MONITORING WINDOW
pH Value : 6
Turbidity : 55
Temperature: 13
START
LEFT
FORWARD
RIGHT
STOP
Motor controller
Log OUT

Python OUTPUT





Node-RED OUTPUT