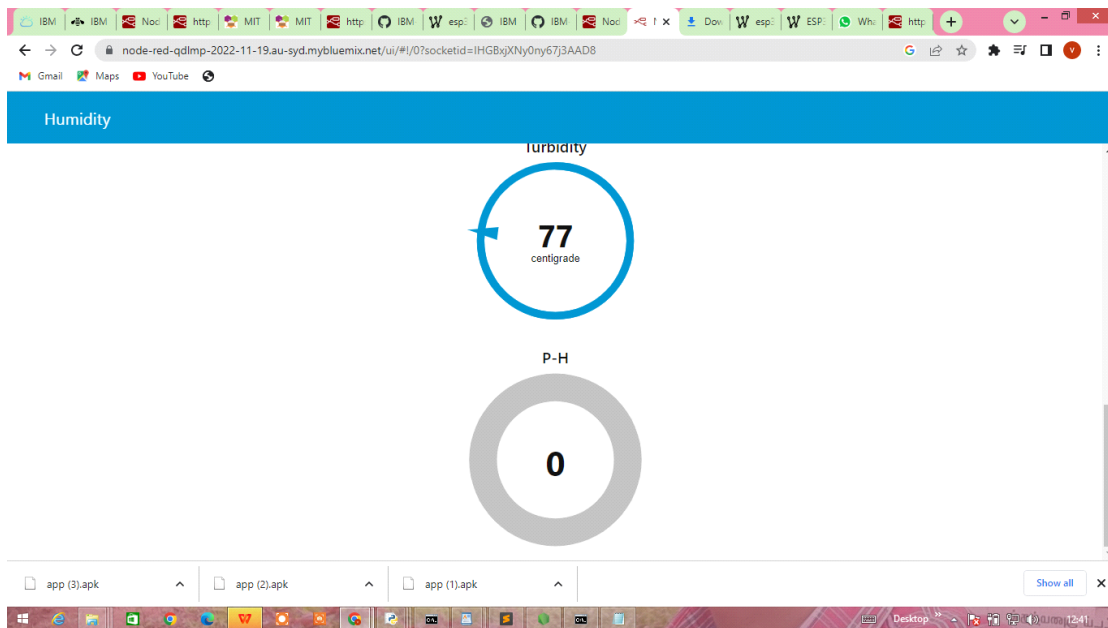


## **Creation Of MOBILE APP**

Date	16 OCTOBER 2022
Team Leader	VISHNU KUMAR N
Team Members	SURESH S MATHAN KUMAR T SASI KUMAR K
Project Name	REAL TIME RIVER WATER QUALITY MONITERING AND CONTROL SYSTEM

**UI SHOWS THE TURBIDITY AND PH VALUE(PHASE 1)**

**Web UI**



## Mobile UI

12:48

VoLTE2 77%

Screen1

# Smart Home Application

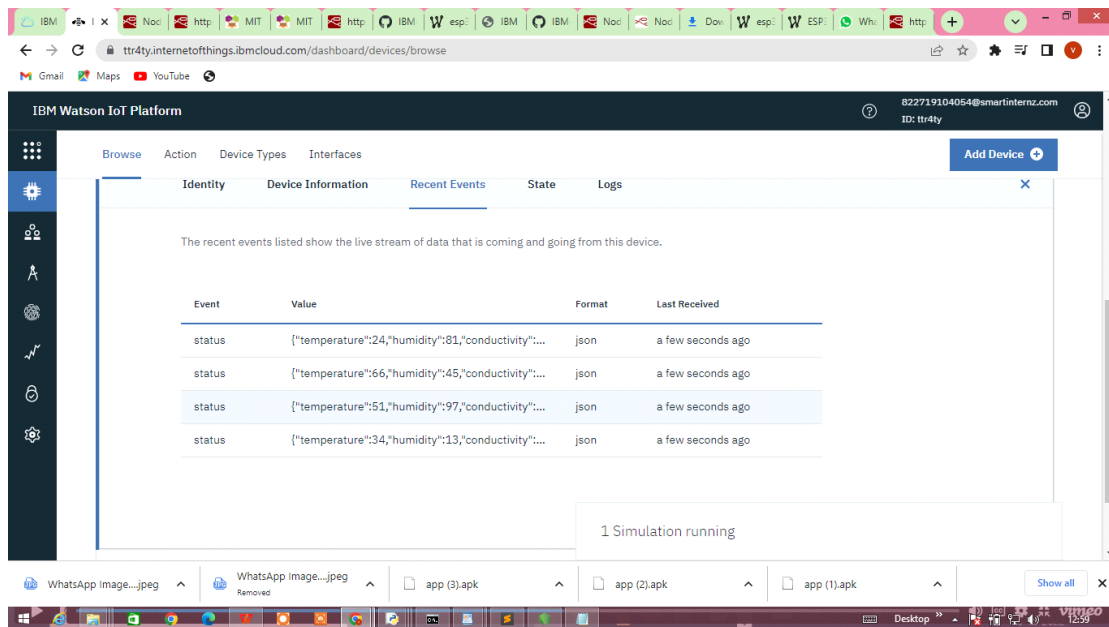
Turbidity

PH-value

MOTOR OFF

MOTOR ON

## RECEIVING DATA FROM CLOUD(PHASE 2)



The screenshot displays the IBM Watson IoT Platform dashboard. The top navigation bar includes tabs for Browse, Action, Device Types, and Interfaces. The main content area is titled "Recent Events" and shows a table of data received from a device. The table has four columns: Event, Value, Format, and Last Received. The data shows four status events with varying temperature, humidity, and conductivity values. A notification at the bottom indicates "1 Simulation running".

Event	Value	Format	Last Received
status	{"temperature":24,"humidity":81,"conductivity":...	json	a few seconds ago
status	{"temperature":66,"humidity":45,"conductivity":...	json	a few seconds ago
status	{"temperature":51,"humidity":97,"conductivity":...	json	a few seconds ago
status	{"temperature":34,"humidity":13,"conductivity":...	json	a few seconds ago

## UI for Controlling Motor (PHASE 3)

12:48

VoLTE2 77%

Screen1

# Smart Home Application

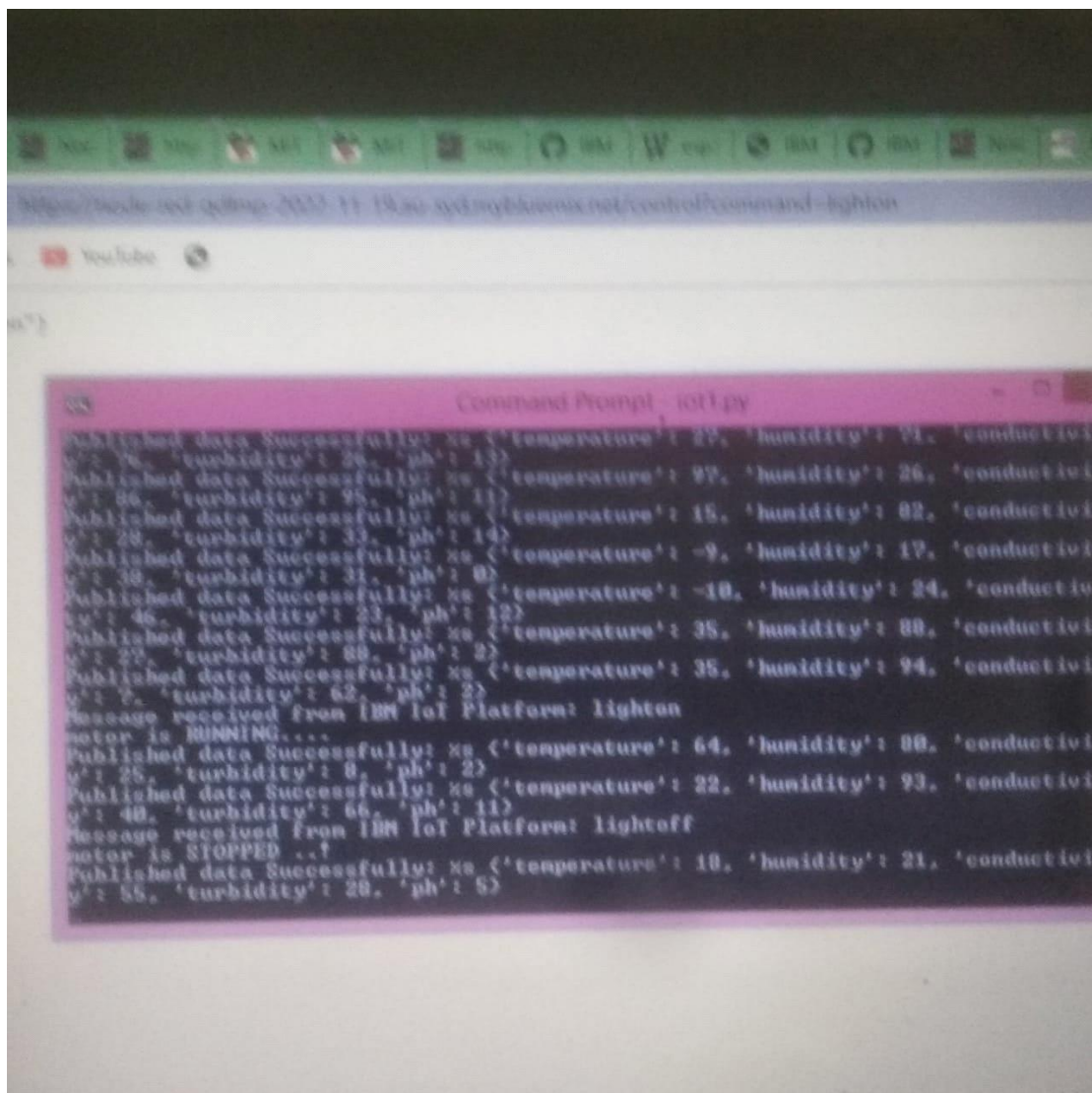
Turbidity

PH-value

MOTOR OFF

MOTOR ON

## OUTPUT FOR APPLICATION



The image shows a web browser window at the top with a URL: `https://node-red.github.io/2023-11-18-00-cyclenylablinux.net/control/command-lighton`. Below the browser is a Windows Command Prompt window titled "Command Prompt - iot1.py". The command prompt displays a series of log messages, including "Published data Successfully:" followed by JSON objects containing sensor data (temperature, humidity, conductivity, pH, turbidity) and status messages like "Message received from IBM IoT Platform: lighton" and "motor is RUNNING....".

```
Published data Successfully: xs {'temperature': 27, 'humidity': 71, 'conductivity': 76, 'turbidity': 26, 'ph': 13}
Published data Successfully: xs {'temperature': 27, 'humidity': 26, 'conductivity': 86, 'turbidity': 95, 'ph': 11}
Published data Successfully: xs {'temperature': 15, 'humidity': 82, 'conductivity': 28, 'turbidity': 33, 'ph': 14}
Published data Successfully: xs {'temperature': -9, 'humidity': 17, 'conductivity': 38, 'turbidity': 31, 'ph': 8}
Published data Successfully: xs {'temperature': -10, 'humidity': 24, 'conductivity': 46, 'turbidity': 23, 'ph': 12}
Published data Successfully: xs {'temperature': 35, 'humidity': 88, 'conductivity': 27, 'turbidity': 88, 'ph': 2}
Published data Successfully: xs {'temperature': 35, 'humidity': 94, 'conductivity': 7, 'turbidity': 62, 'ph': 2}
Message received from IBM IoT Platform: lighton
motor is RUNNING....
Published data Successfully: xs {'temperature': 64, 'humidity': 88, 'conductivity': 25, 'turbidity': 8, 'ph': 2}
Published data Successfully: xs {'temperature': 22, 'humidity': 93, 'conductivity': 48, 'turbidity': 66, 'ph': 11}
Message received from IBM IoT Platform: lightoff
motor is STOPPED ...
Published data Successfully: xs {'temperature': 18, 'humidity': 21, 'conductivity': 55, 'turbidity': 28, 'ph': 5}
```







