

Project Development Phase

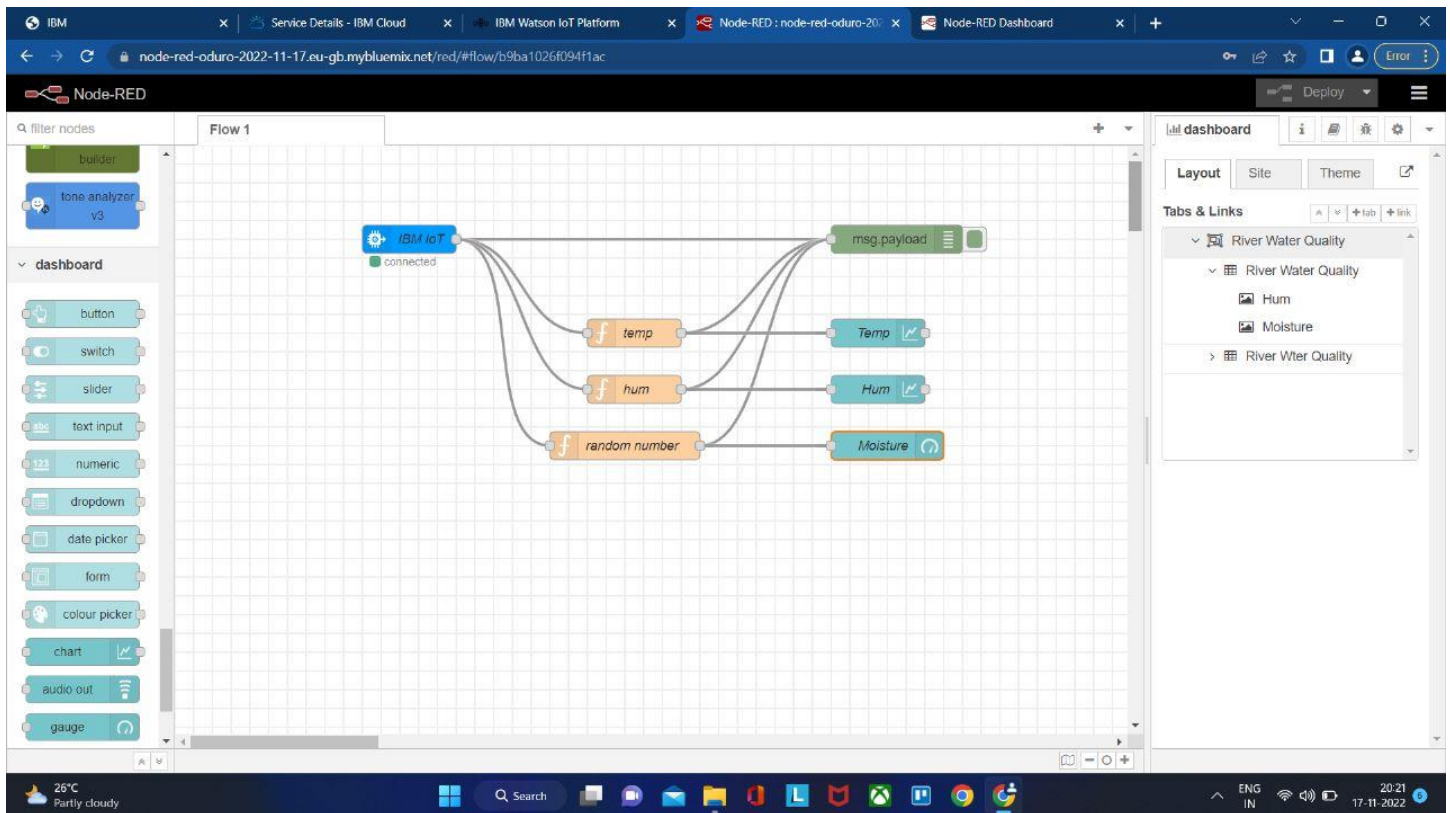
Sprint – 4

Date	19 Nov 2022
Team ID	PNT2022TMID06701
Project Name	Real-Time River Water Quality Monitoring and Control System
Maximum Marks	8 Marks

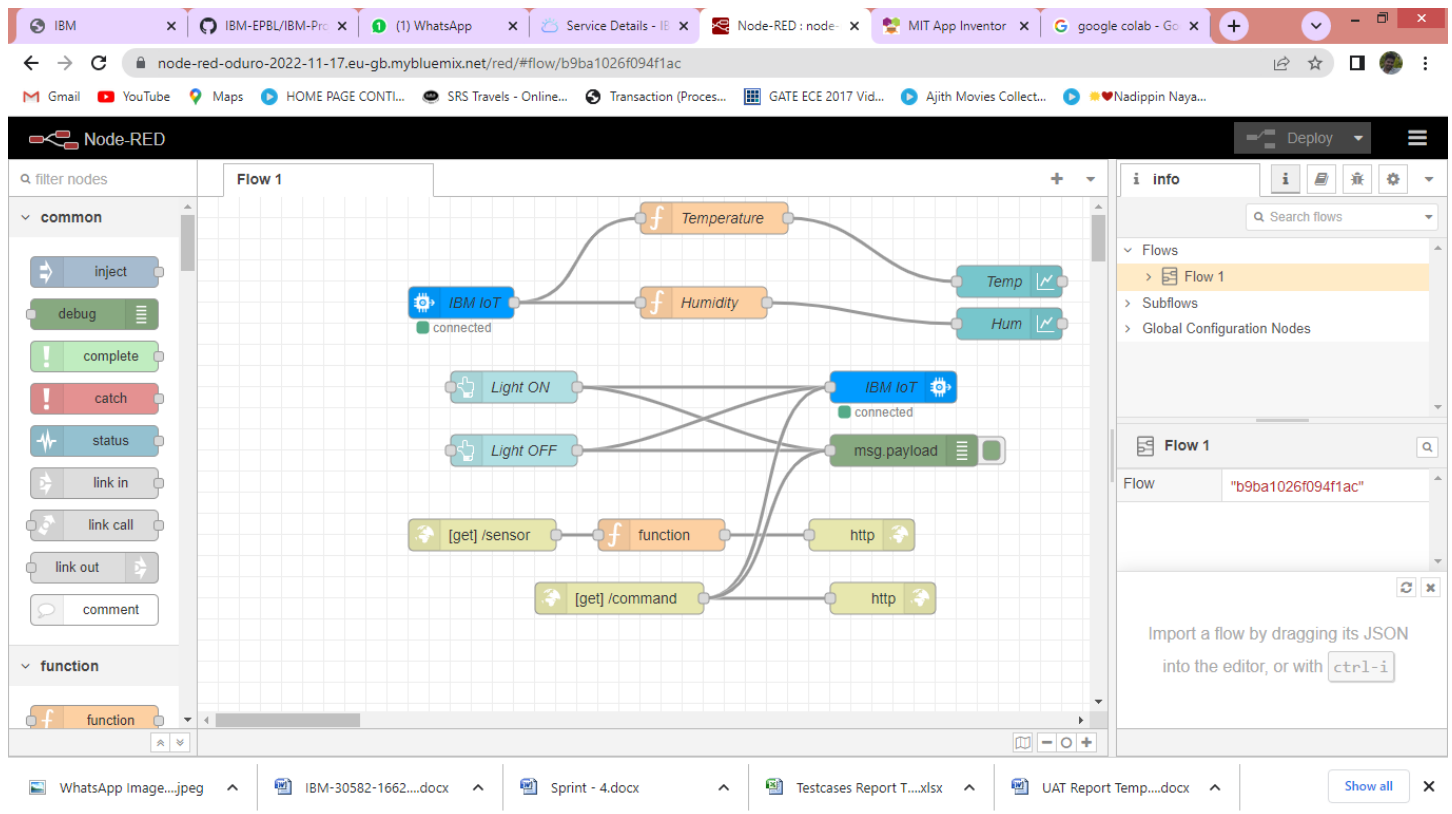
USN – 10: Create a Web UI using Node-red

As a user, I can create a Web UI, to access the data from the cloud and display all parameters.

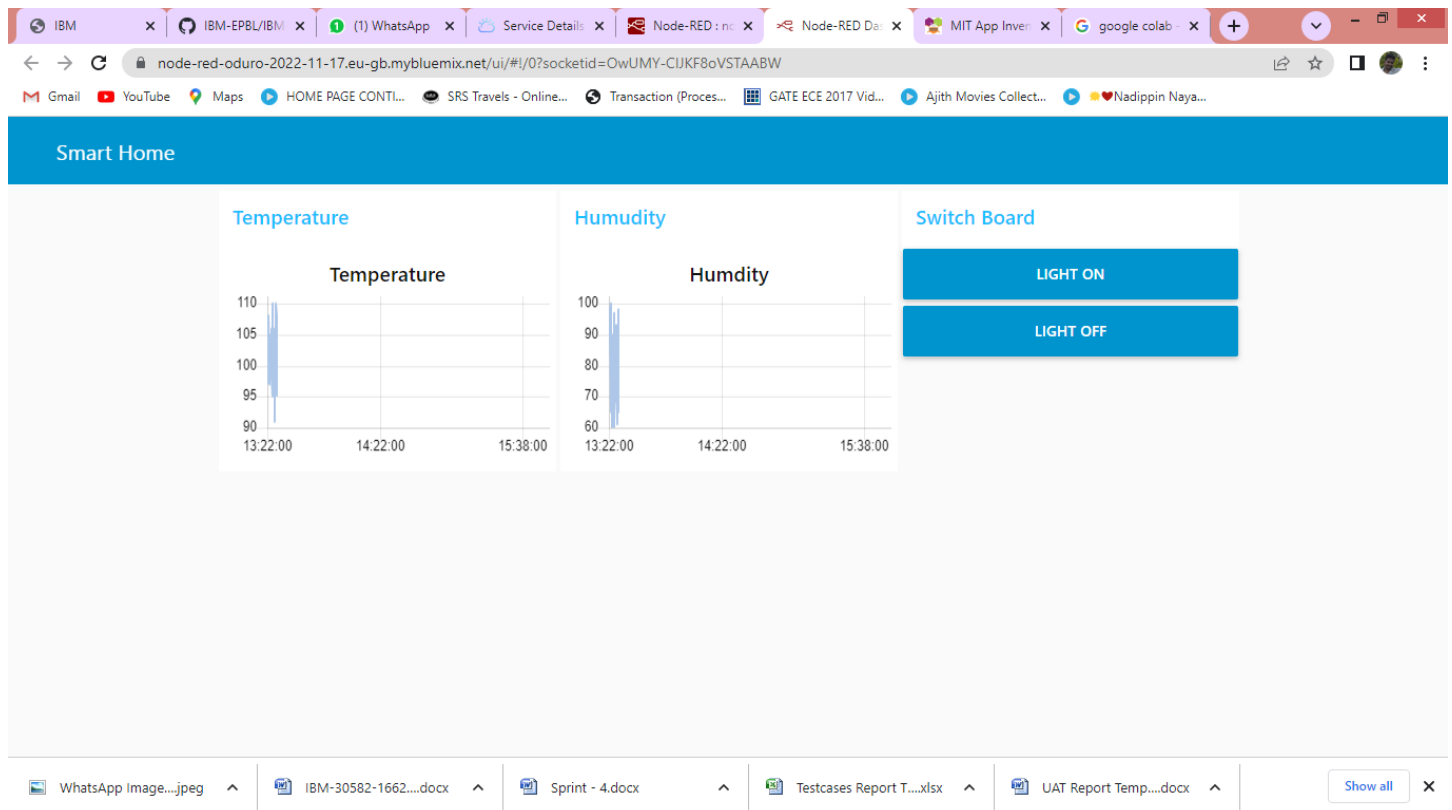
Creating web application in Node-Red:



Creating Web UI:



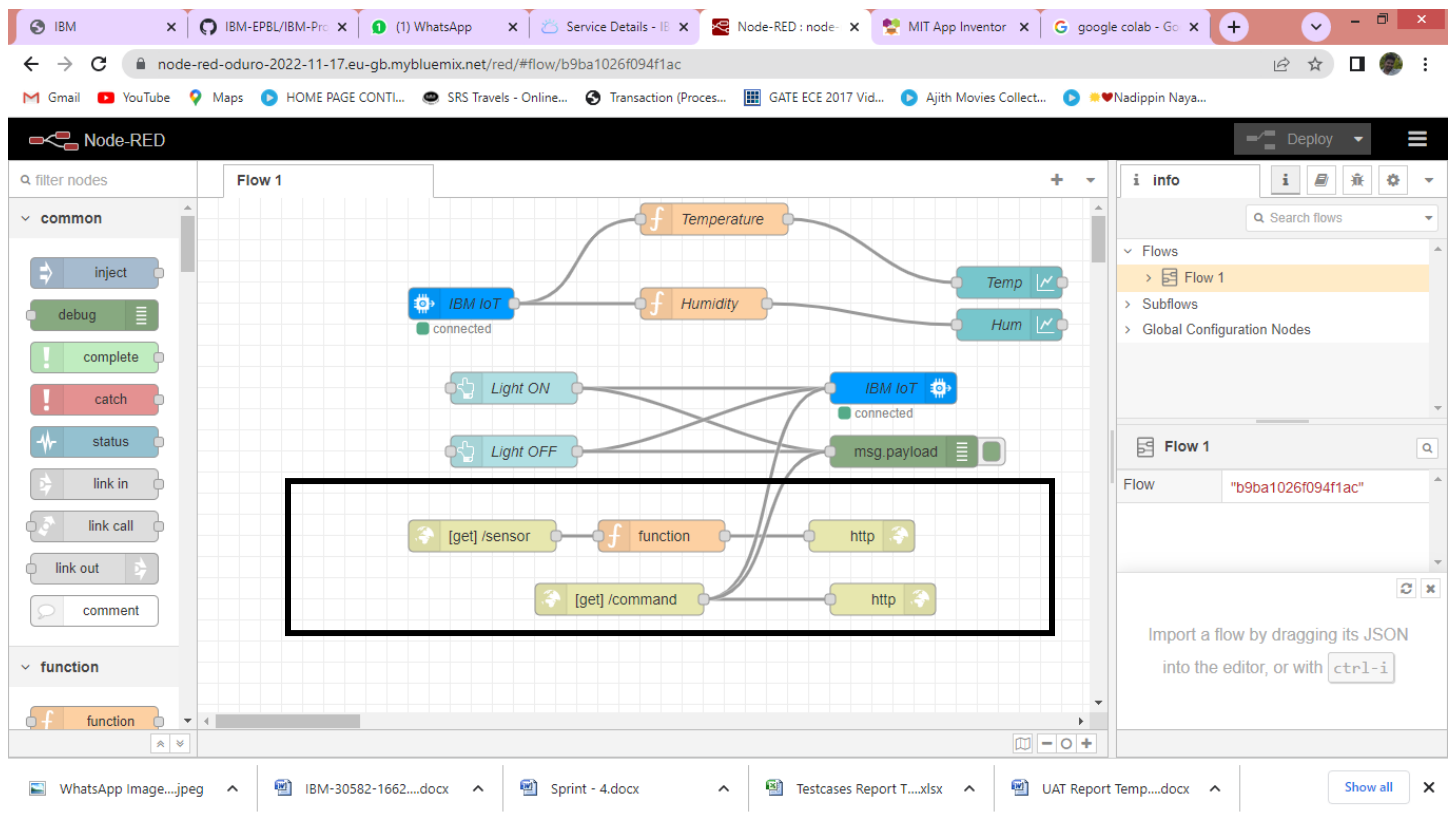
Web UI Dashboard:



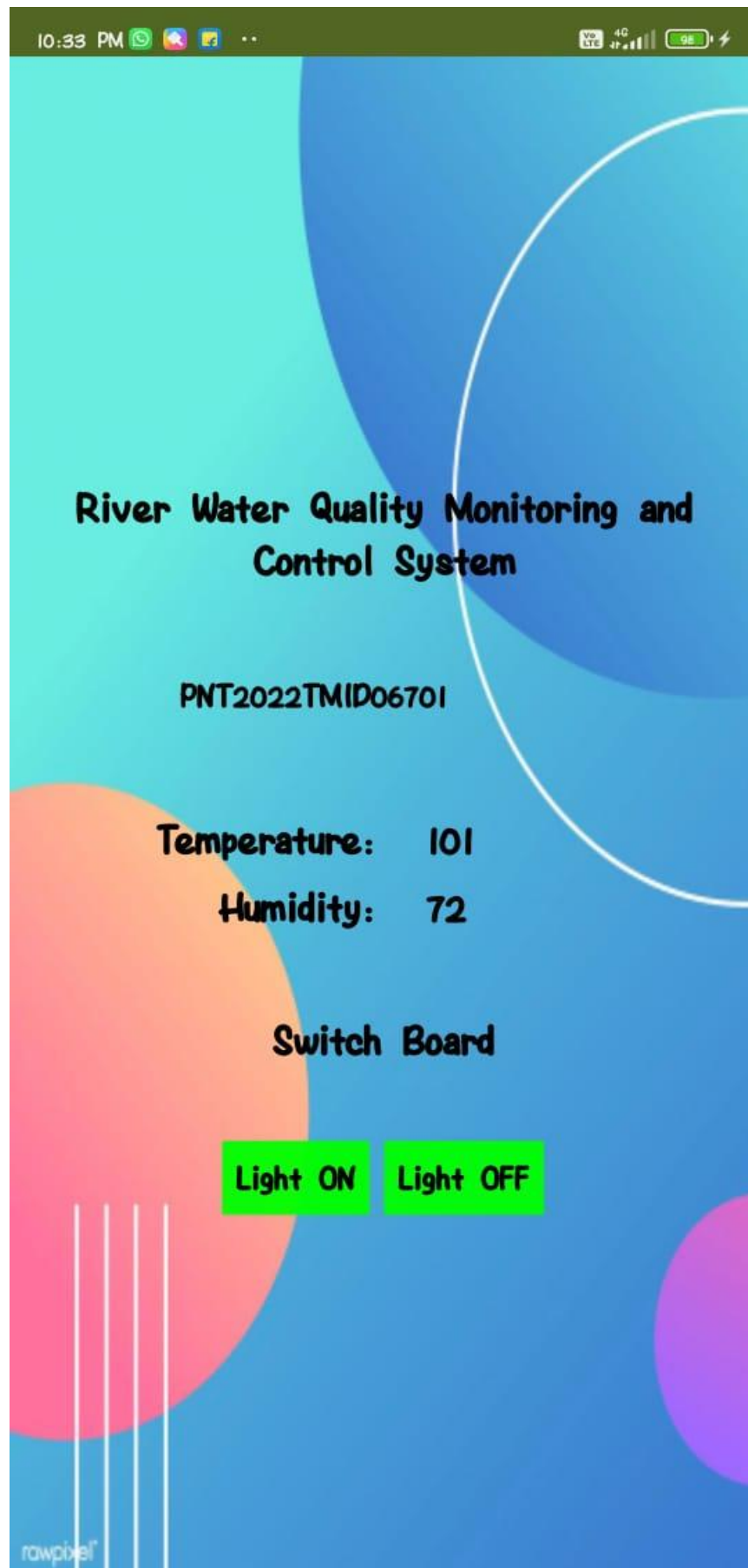
USN – 11: Connecting Node-red to Mobile Application

As a user, I can connect the node-red to the mobile application to display all the parameters in the mobile app

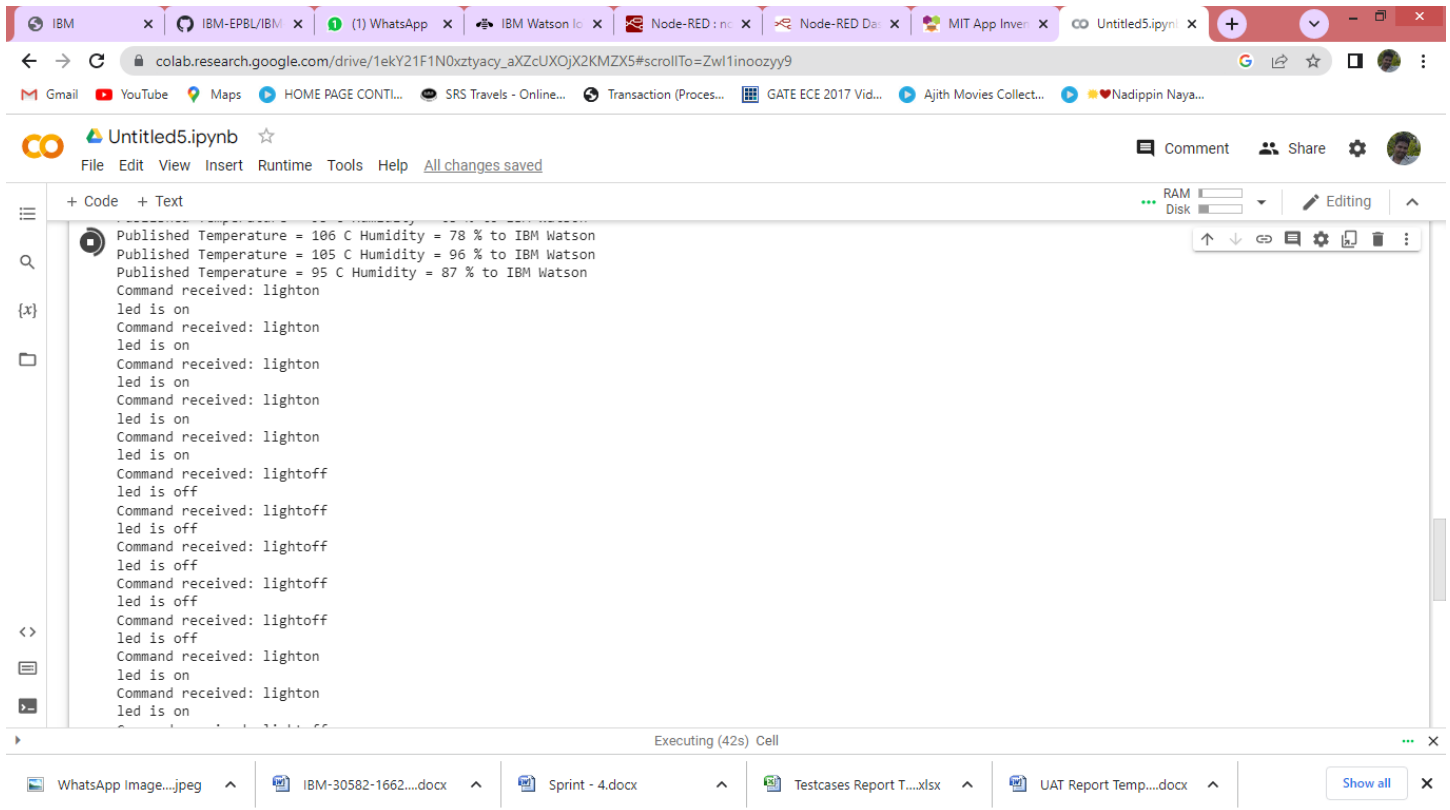
Creating HTTP Request:



Data in Mobile App:



Command Received in Python Shell when the button is Clicked:



The screenshot shows a Google Colab notebook titled "Untitled5.ipynb". The notebook is open to a code cell that contains a loop of commands and their corresponding responses. The commands are "lighton" and "lightoff", and the responses are "led is on" and "led is off". The notebook is running on a Google Cloud Platform instance, and the output of the code cell is visible in the shell area.

```
Published Temperature = 106 C Humidity = 78 % to IBM Watson
Published Temperature = 105 C Humidity = 96 % to IBM Watson
Published Temperature = 95 C Humidity = 87 % to IBM Watson
Command received: lighton
led is on
Command received: lighton
led is on
Command received: lighton
led is on
Command received: lighton
led is on
Command received: lighton
led is on
Command received: lightoff
led is off
Command received: lightoff
led is off
Command received: lightoff
led is off
Command received: lightoff
led is off
Command received: lightoff
led is off
Command received: lighton
led is on
Command received: lighton
led is on
```

Executing (42s) Cell

WhatsApp Image...jpeg IBM-30582-1662....docx Sprint - 4.docx Testcases Report T....xlsx UAT Report Temp....docx Show all