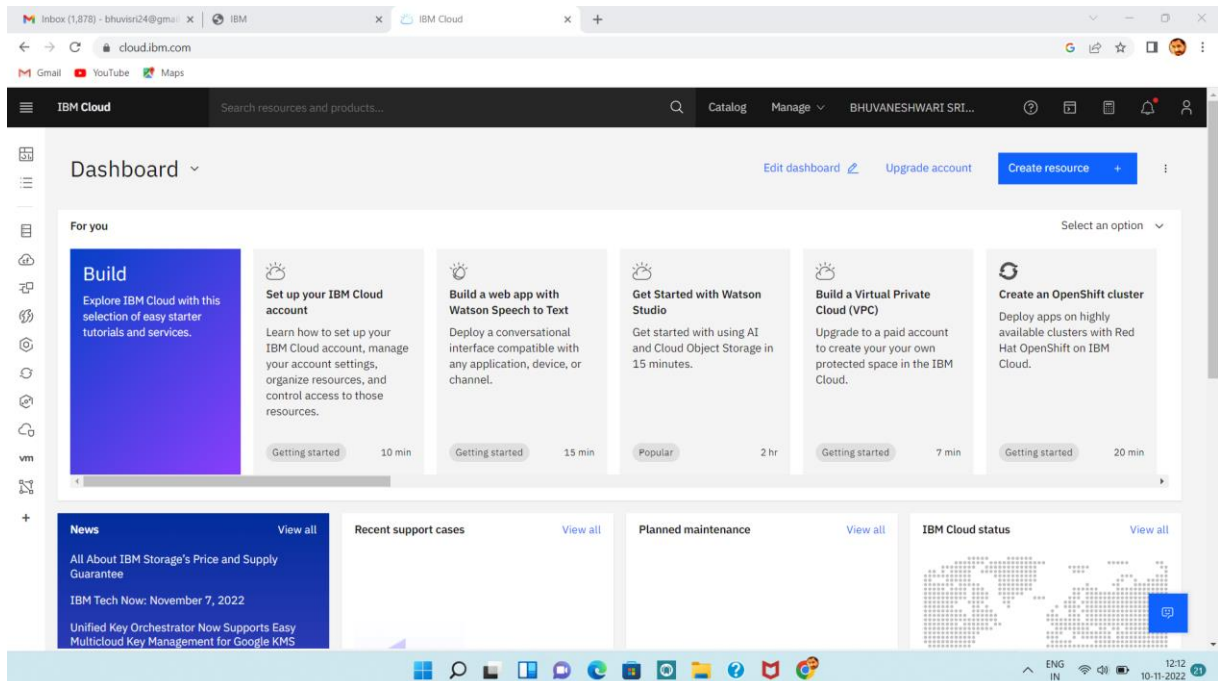


REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

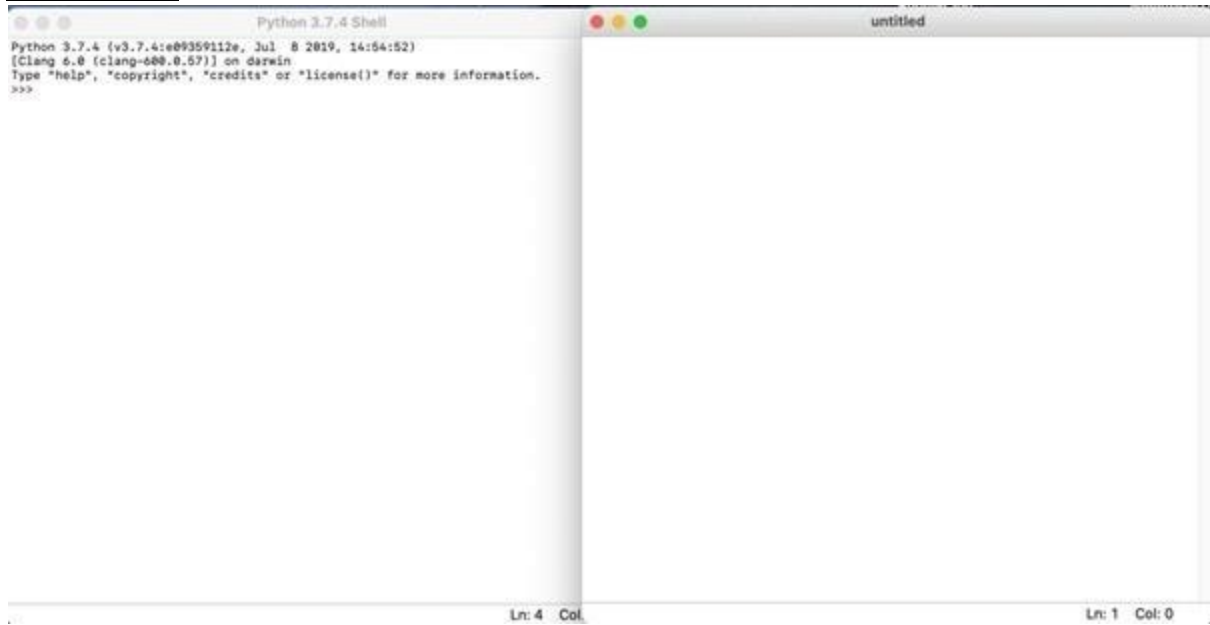
TEAM ID	PNT2022TMID23838
PROJECT NAME	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
LEADER NAME	BHUVANESHWARI SRIDHAR S
TEAM MEMBERS NAME	BAVANI P DIVEDHA V KAVIYARASI P

PREREQUISITES:

IBM CLOUD SERVICES



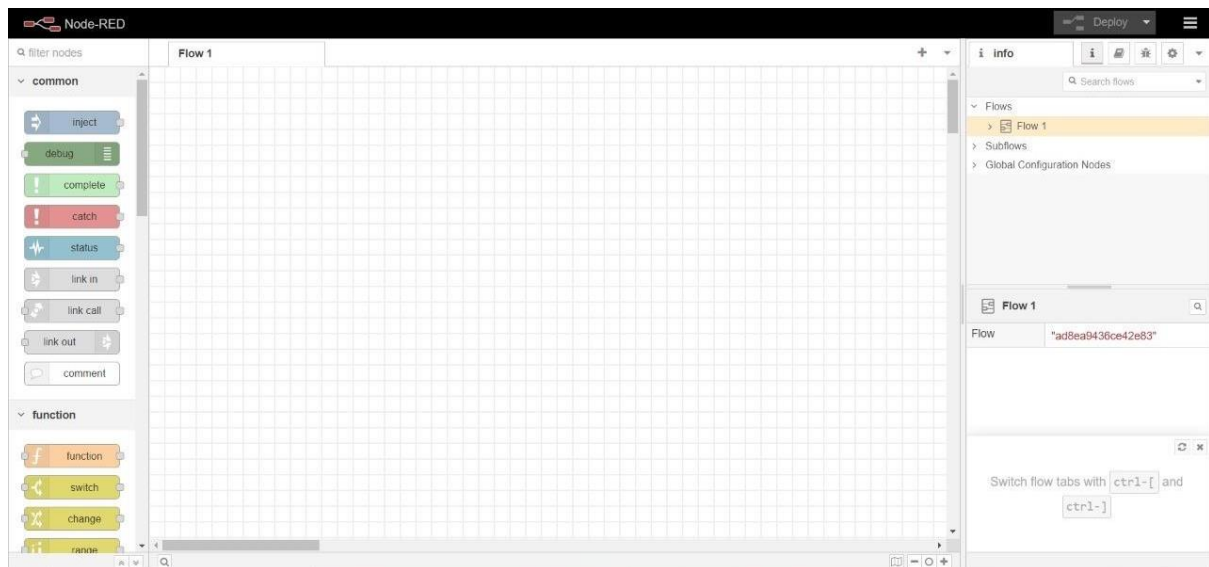
SOFTWARE



CREATE AN CONFIGURE IBM CLOUD SERVIVES:

CREATE IBM WATSON IOT PLATFORM AND DEVICE

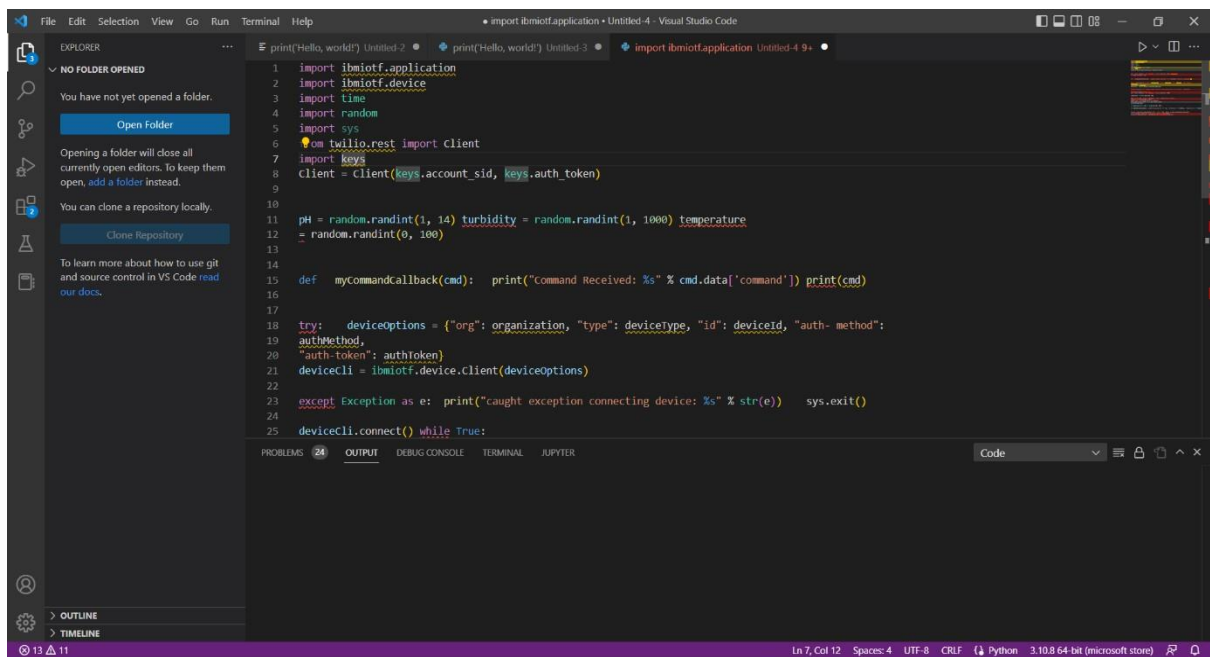
CREATE NODE-RED SERVICE

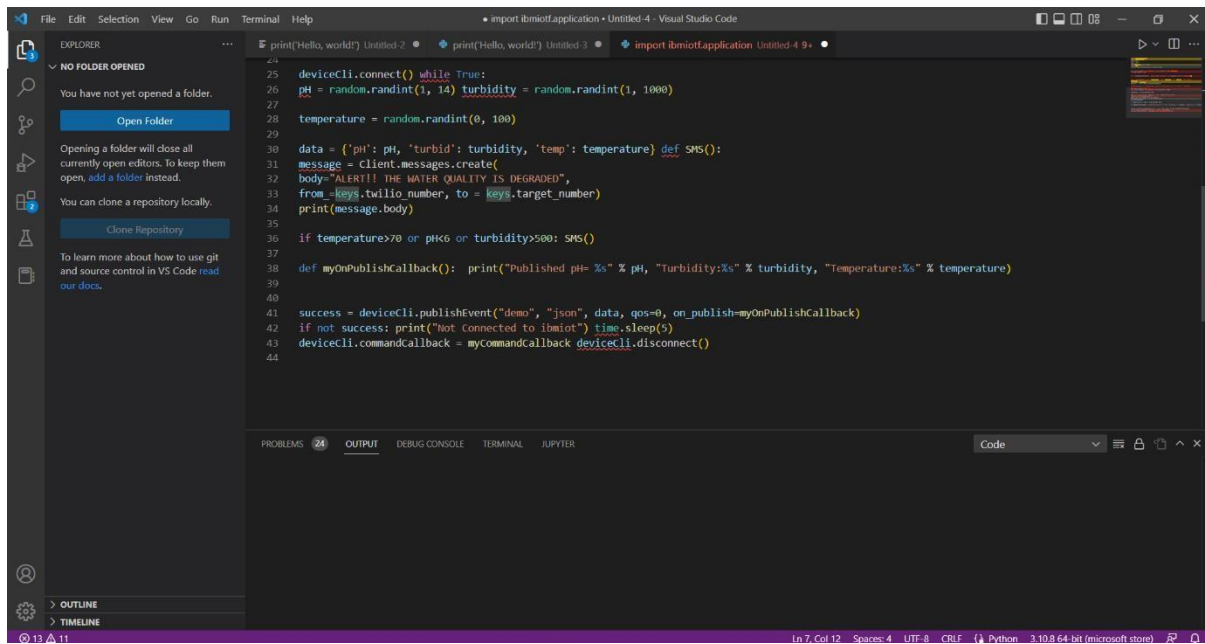


DEVELOP THE PYTHON SCRIPT

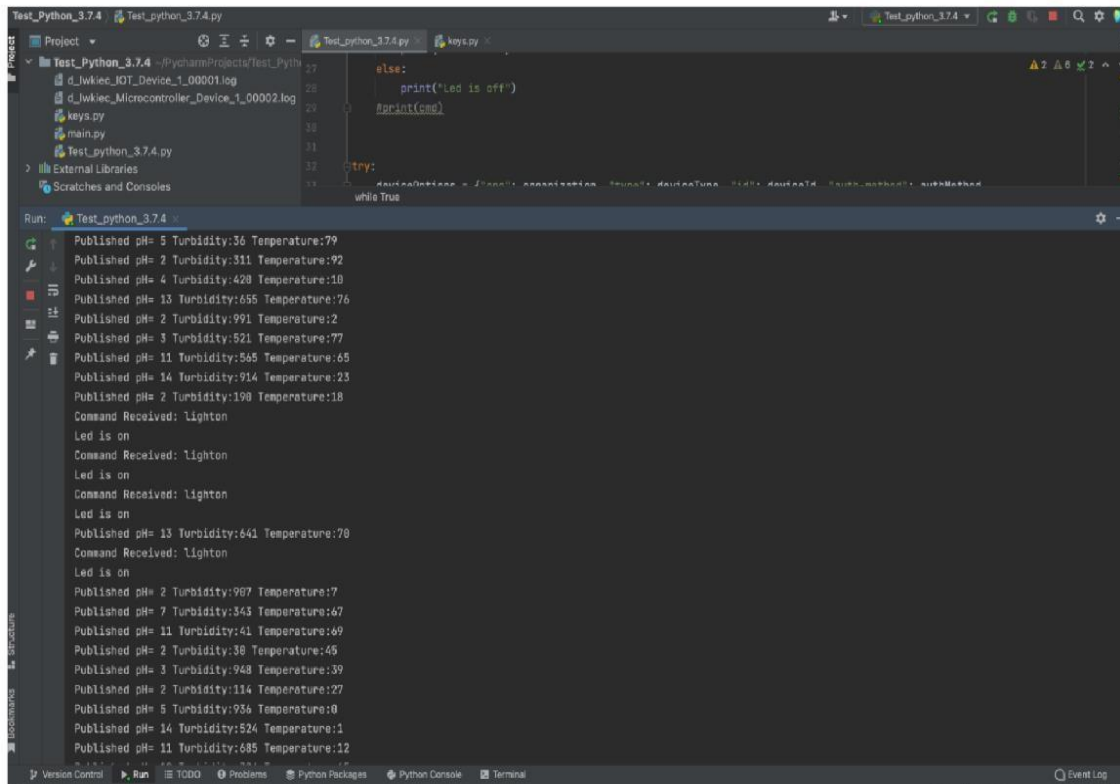
DEVELOP A PYTHON SCRIPT

CODING



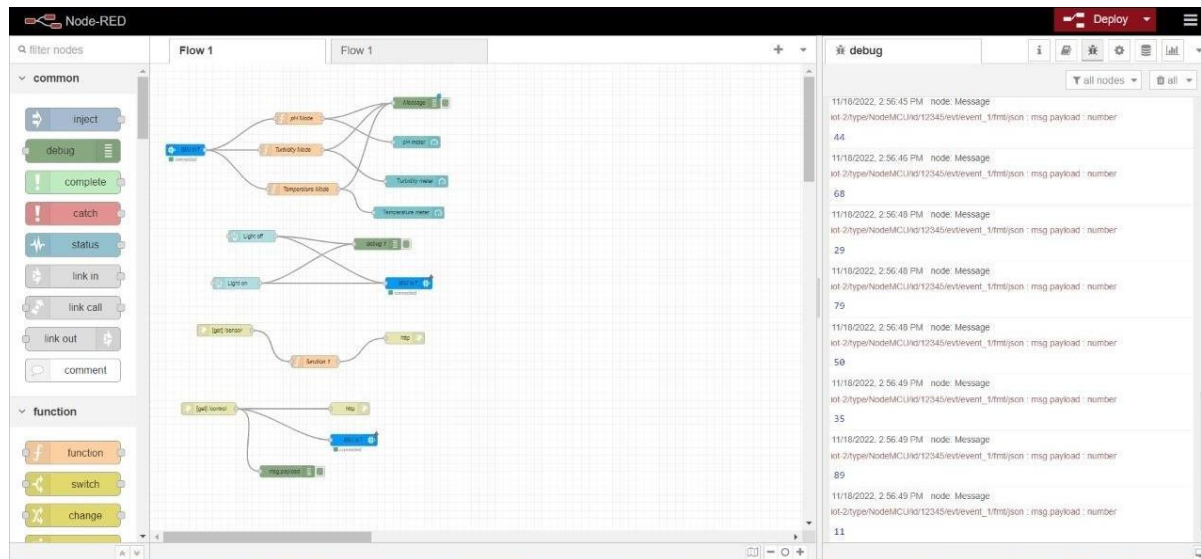


OUTPUT

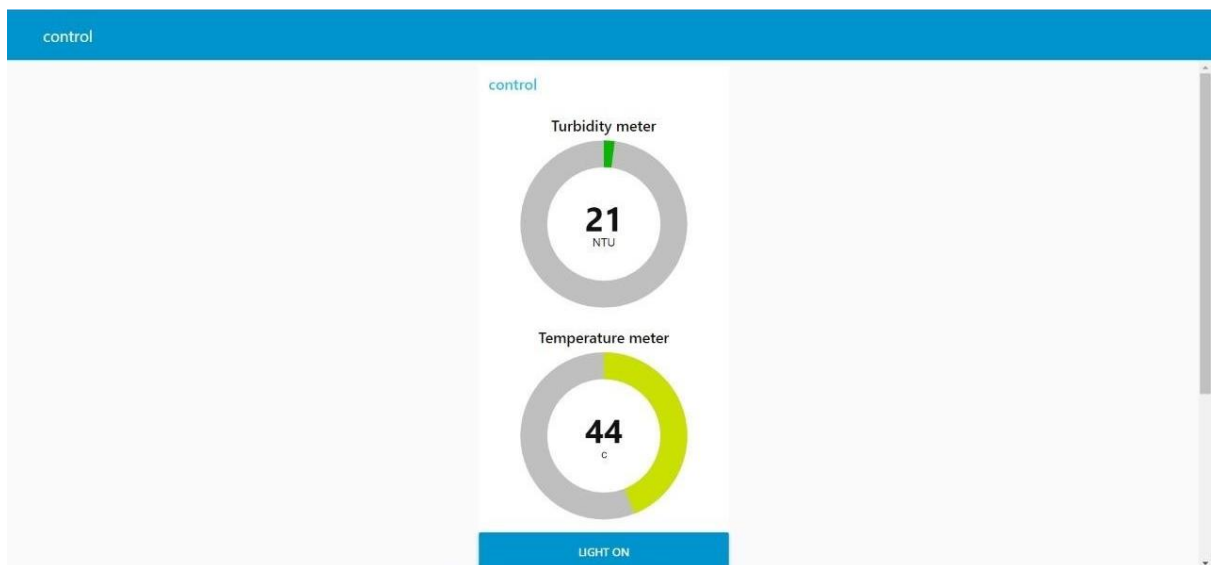


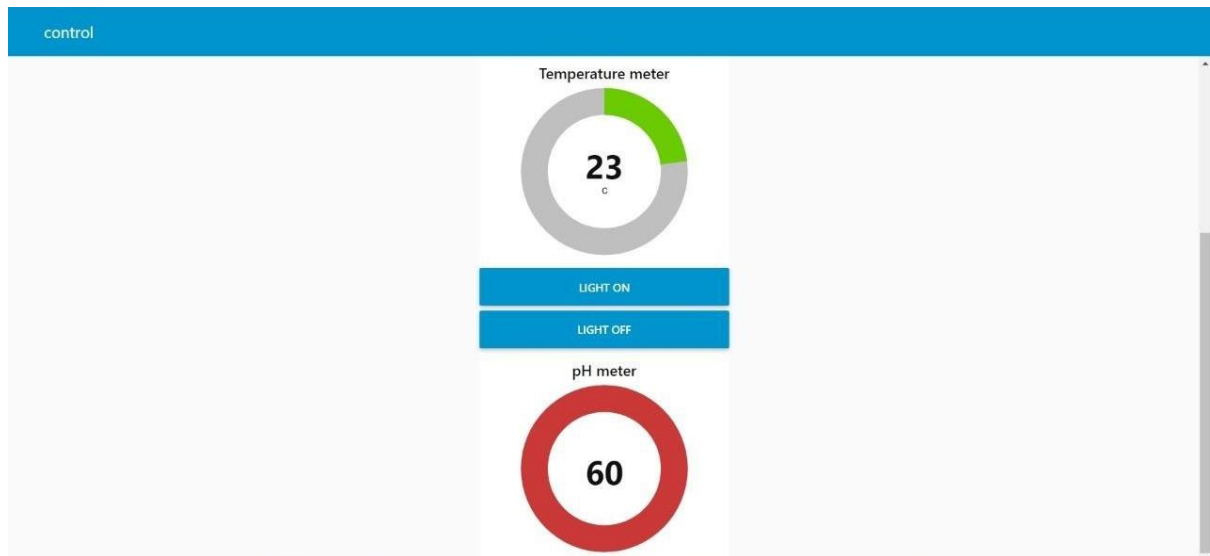
DEVELOP A WEB APPLICATION USING NODE-RED SERVICES

DEVELOP THE WEB APPLICATION USING NODE-RED



USING DASHBOARD NODES FOR CREATING UI(WEB APP)





CREATE AN HTTP REQUESTS TO COMMUNICATE WITH MOBILE APP

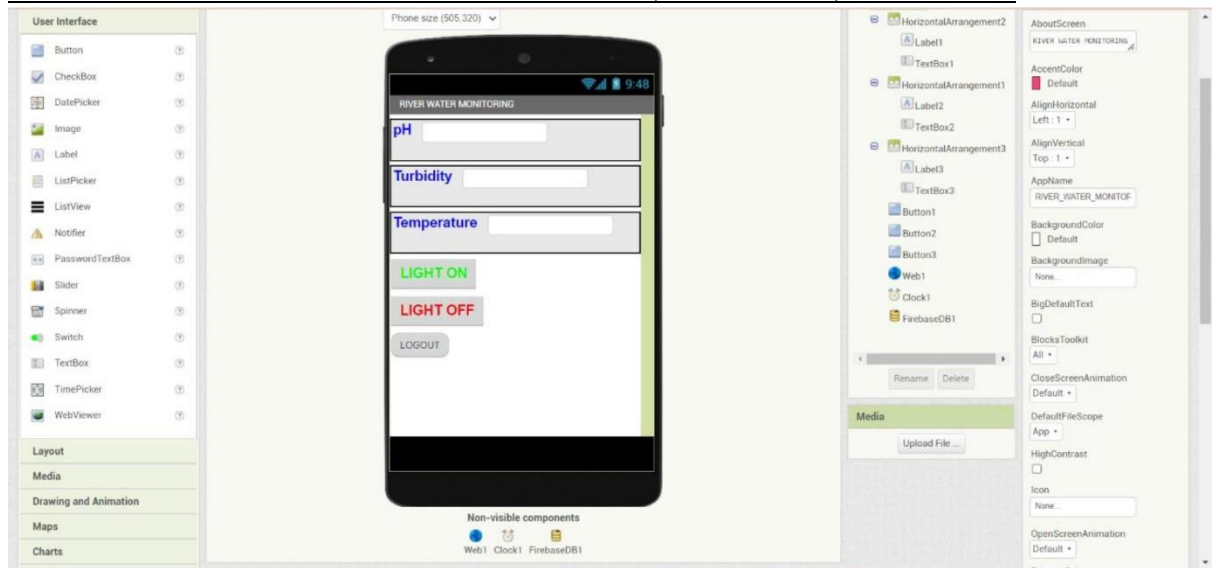
The Node-RED interface shows a flow with a "msg in" node connected to a "function" node. The "function" node is configured with the following code:

```
1 msg.payload=msg.payload.pH
2 global.set('p',msg.payload)
3 return msg;
```

The "Properties" tab is selected, showing the name "pH Mode". The "On Message" tab is also selected. The "debug" console on the right shows a series of messages with payloads: 34, 11, 77, 4, 9, 53, 3, and 24.

BUILDING MOBILE APP

DESIGN YOUR UI TO DISPLAY THE WATER, TURBIDITY, PH VALUES



CONFIGURE THE APPLICATION TO RECEIVE THE DATA FROM CLOUD

