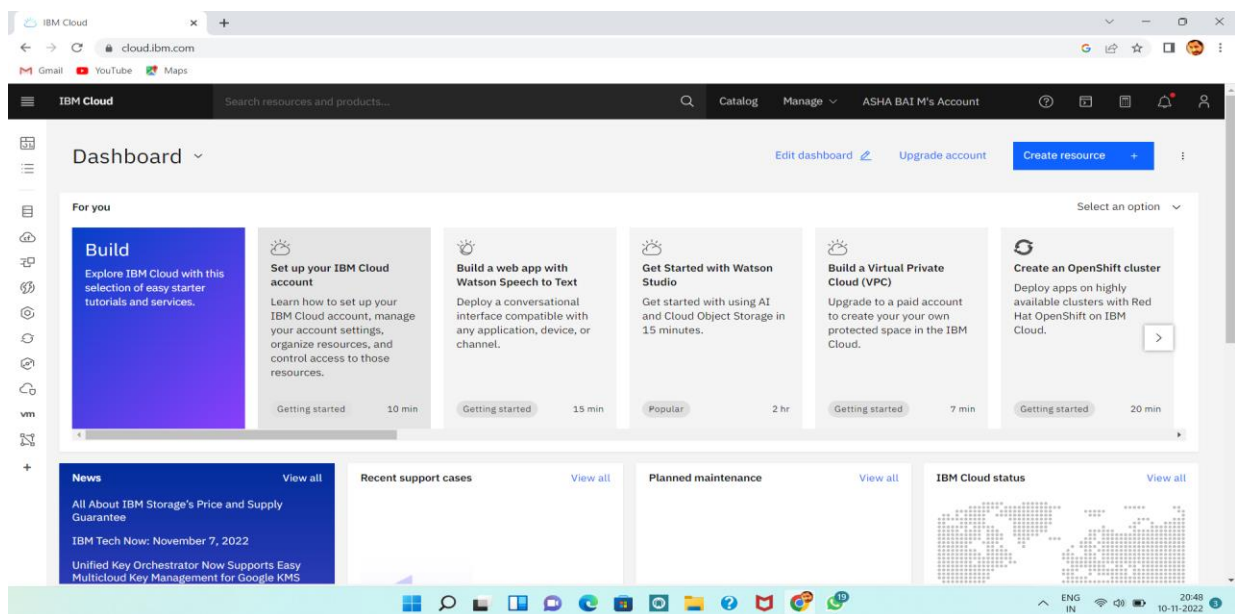


REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM

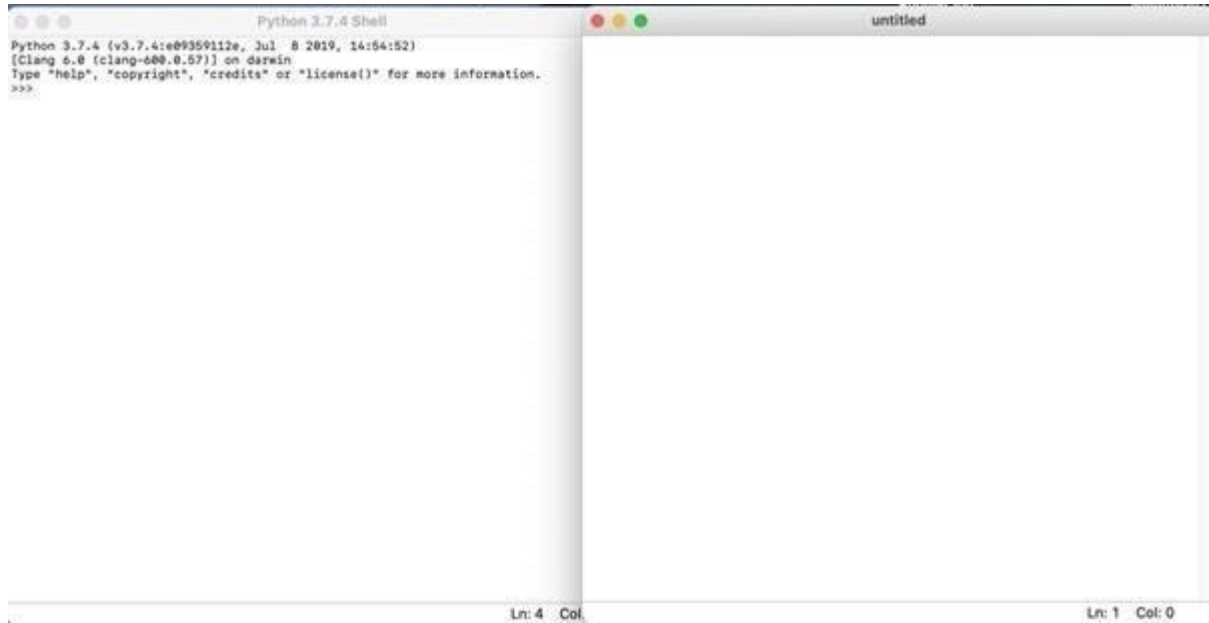
TEAM ID	PNT2022TMID23839
PROJECT NAME	REAL TIME RIVER WATER QUALITY MONITORING AND CONTROL SYSTEM
LEADER NAME	ASHA BAI M
TEAM MEMBERS NAME	GEETHASREE S KEERTHIGA P GOWRI S R

PREREQUISITES:

IBM CLOUD SERVICES

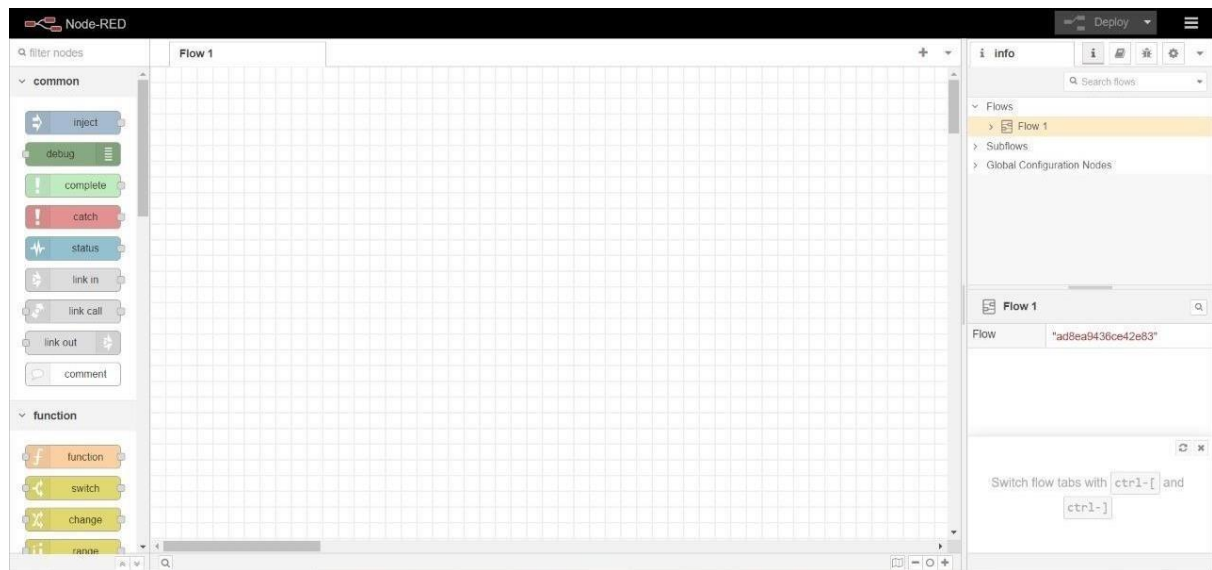


SOFTWARE



CREATE AN CONFIGURE IBM CLOUD SERVIVES:
CREATE IBM WATSON IOT PLATFORM AND DEVICE

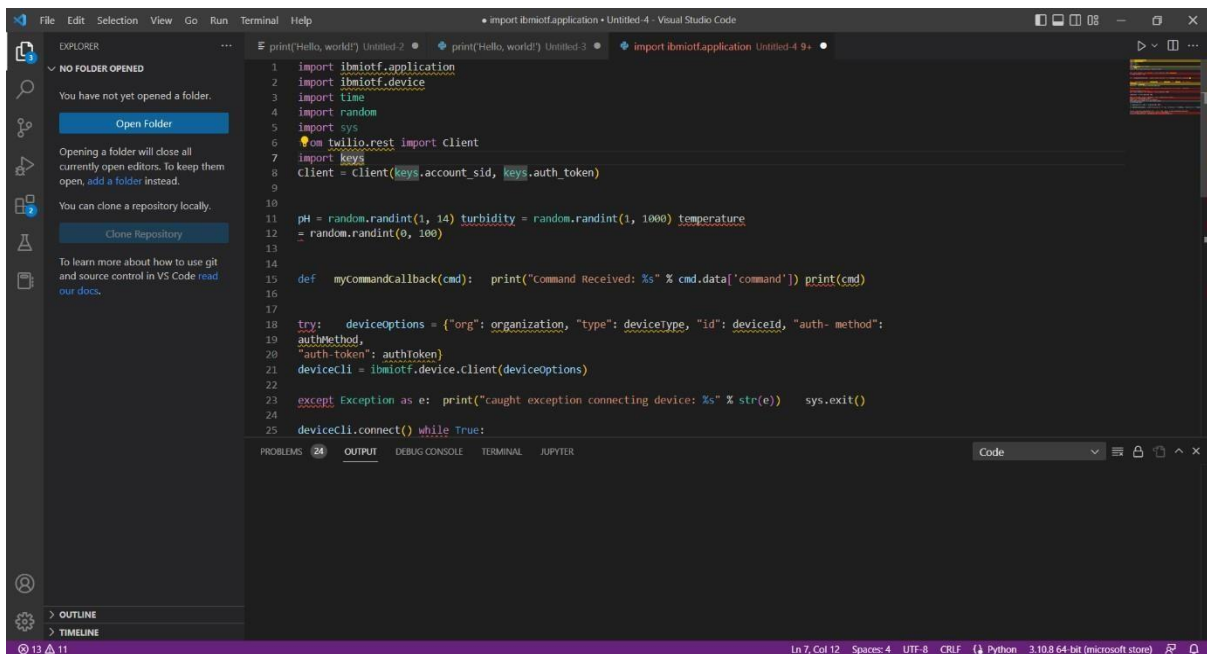
CREATE NODE-RED SERVICE

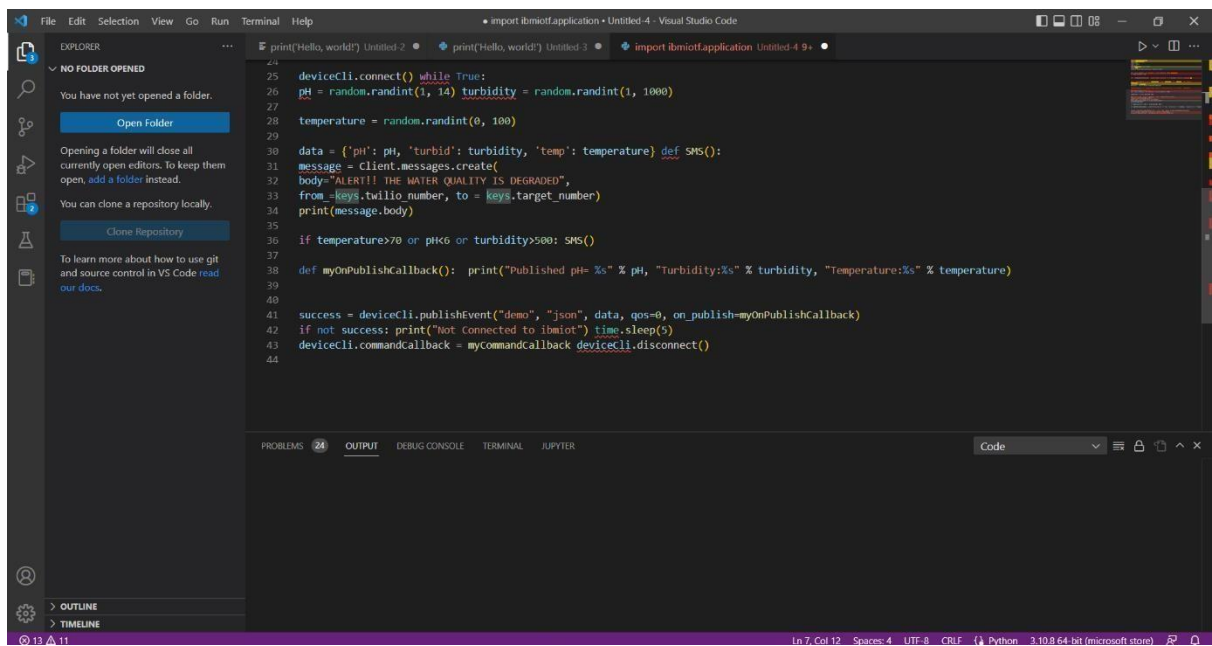


DEVELOP THE PYTHON SCRIPT

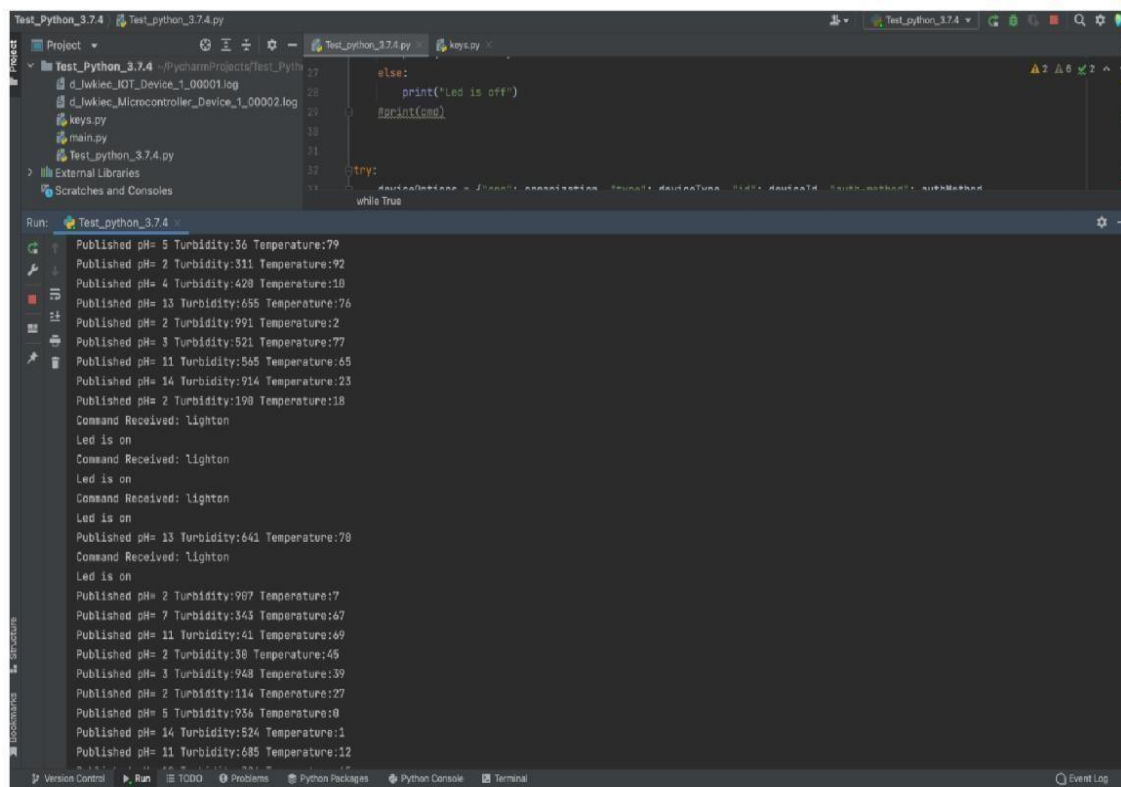
DEVELOP A PYTHON SCRIPT

CODING

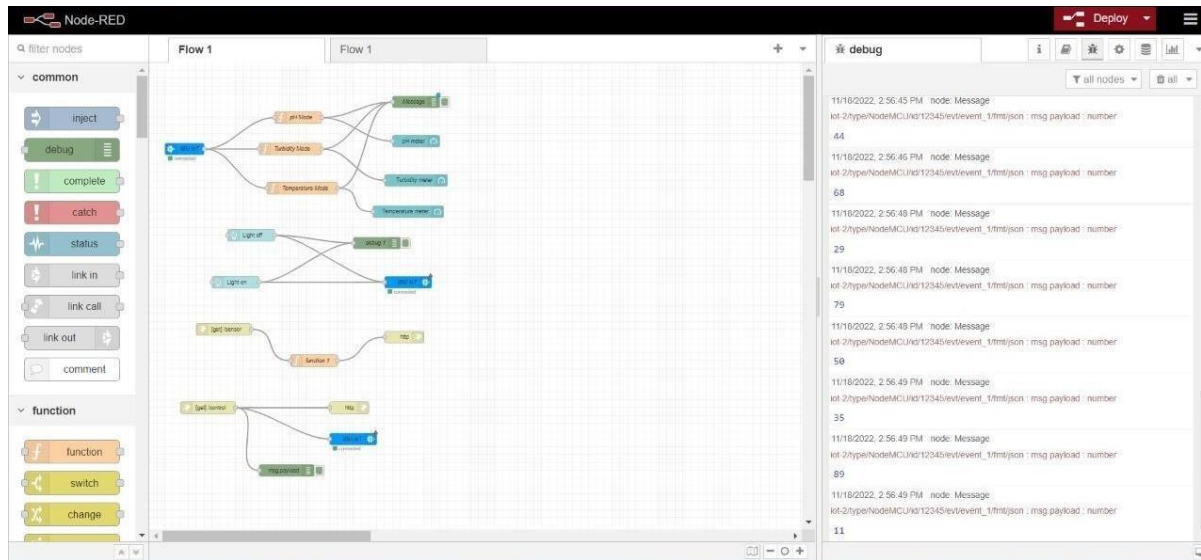




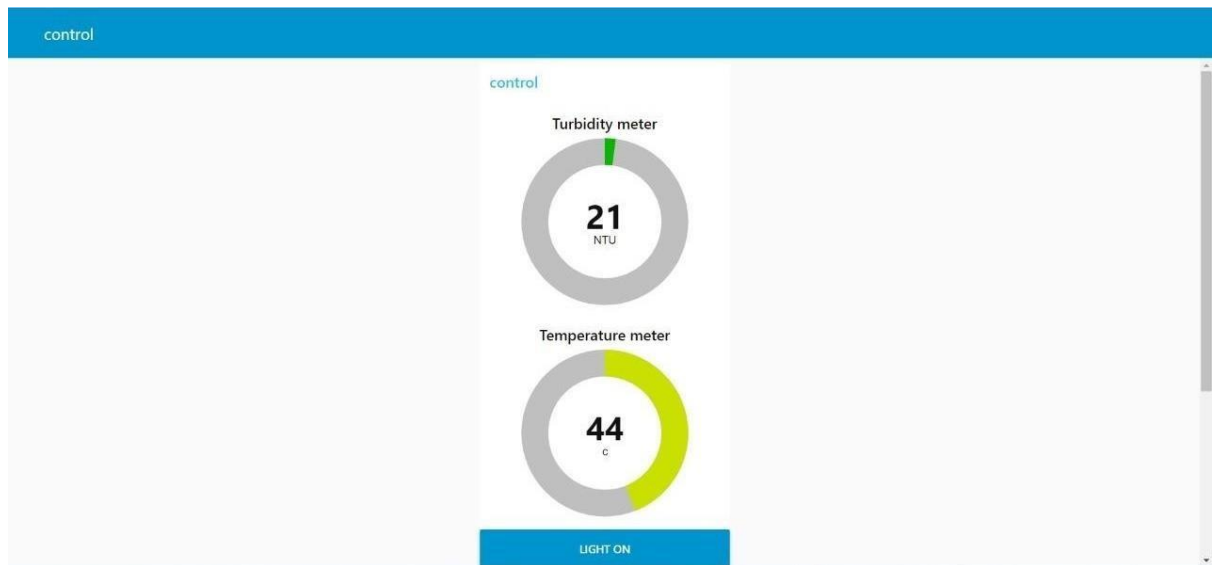
OUTPUT

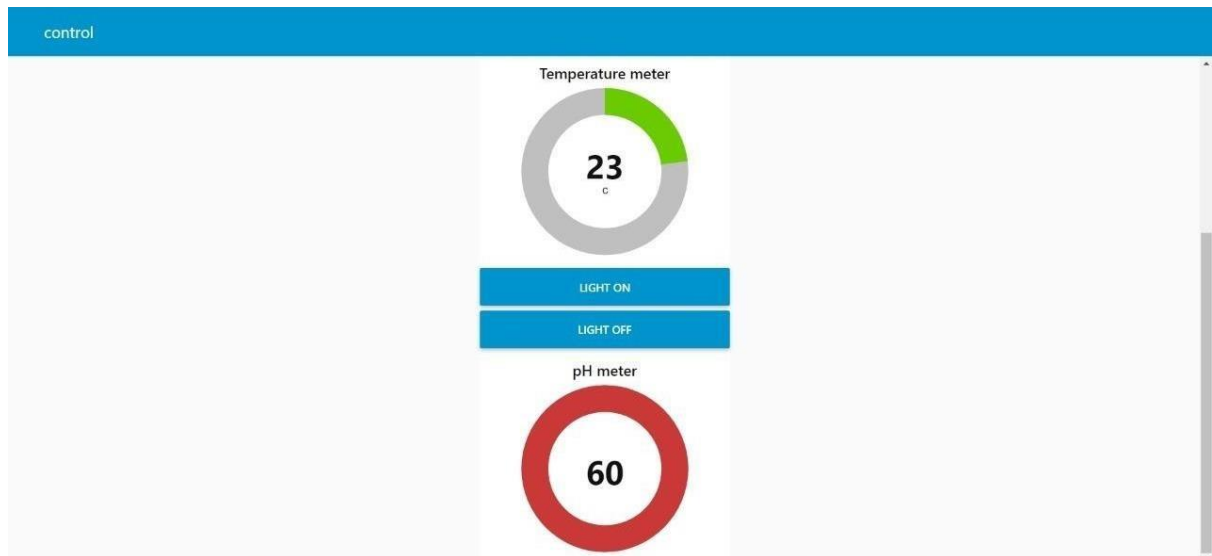


DEVELOP THE WEB APPLICATION USING NODE-RED



USING DASHBOARD NODES FOR CREATING UI(WEB APP)





CREATE AN HTTP REQUESTS TO COMMUNICATE WITH MOBILE APP

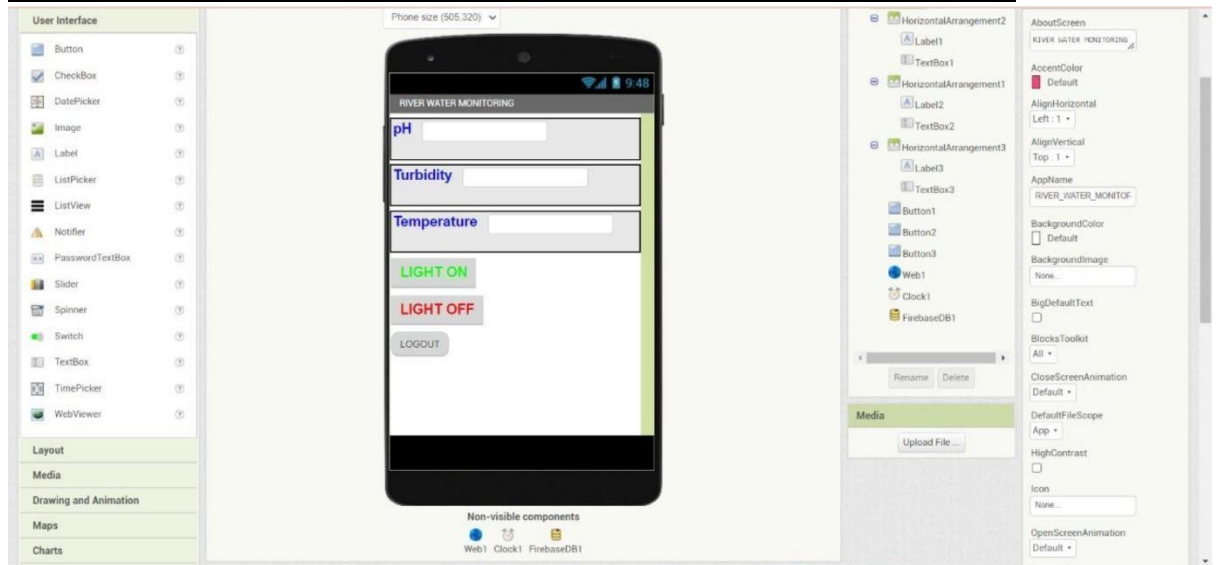
The Node-RED interface shows a function node configuration for "pH Mode". The node is enabled and has the following code in the "On Message" tab:

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

The debug console on the right shows a series of messages from the "kt-2/hypeNodeMCU/kt12345/ev/evnt_1fnt/jsn" endpoint, each containing a "msg payload : number" value. The values shown are 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

