

NAME: ANJALI.K

REG. NO: 211419106027

| | |
|-------------------------|-----------------|
| Date | 21 October 2022 |
| Student Name | ANJALI.K |
| Student Register Number | 211419106027 |
| Maximum Marks | 2 Marks |

WOKWI WEB URL:

<https://wokwi.com/projects/347373974716416595>

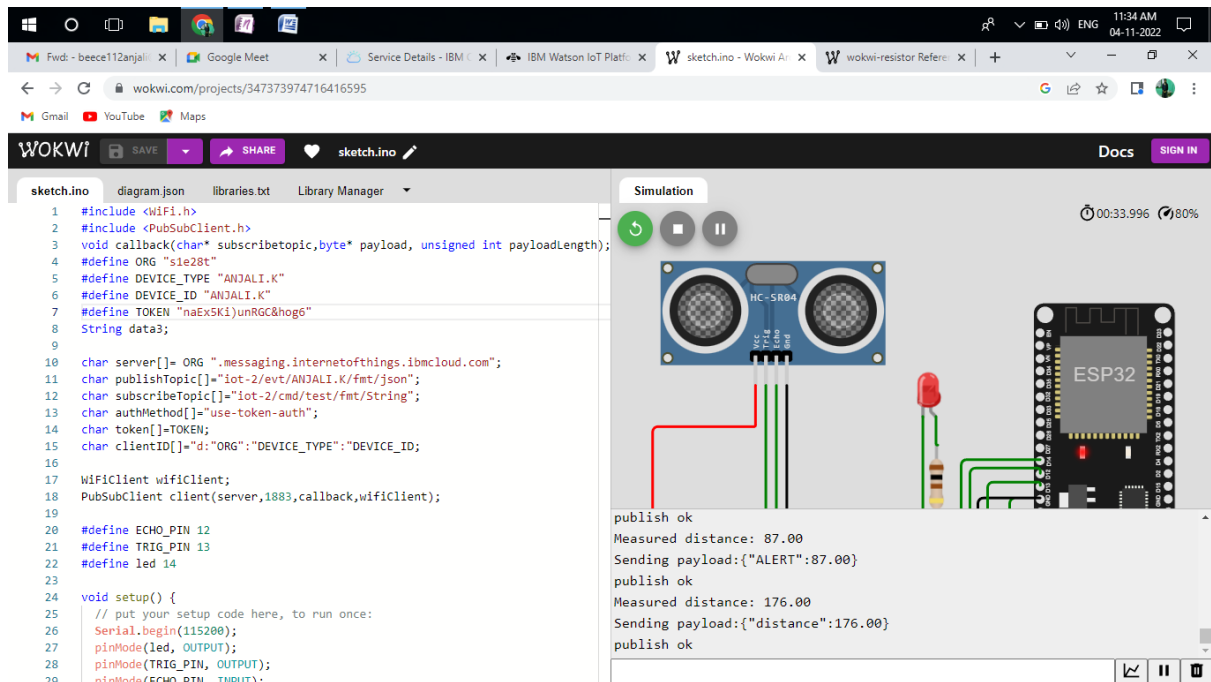
SNAPSHOTS OF SIMULATION:

The screenshot displays the Wokwi web interface for a project simulation. The left pane shows the Arduino sketch code, which includes the necessary libraries, defines the sensor and LED pins, and implements a distance-measuring function. The right pane shows the simulation environment with the ESP32 microcontroller, the HC-SR04 ultrasonic sensor, and an LED. The simulation output window at the bottom right shows the following sequence of events:

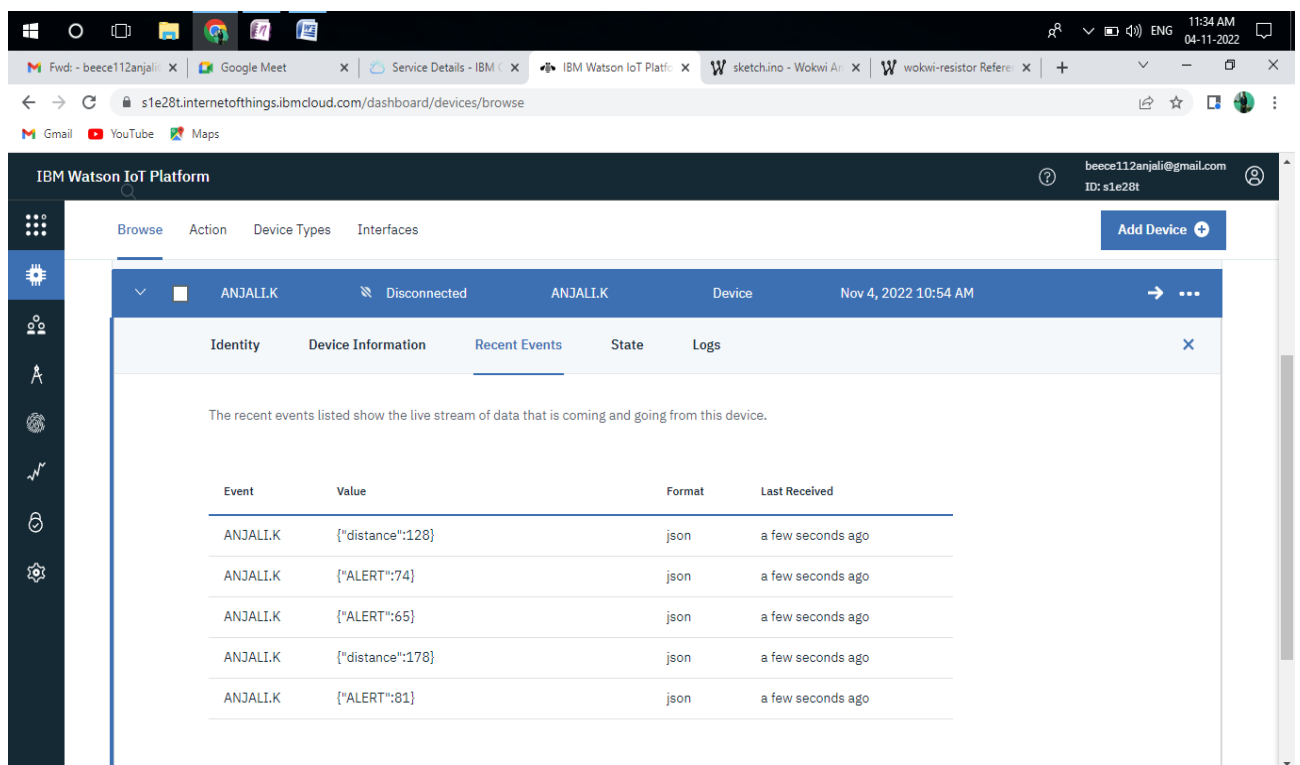
```
publish ok
Measured distance: 72.00
Sending payload:{"ALERT":72.00}
publish ok
Measured distance: 51.00
Sending payload:{"ALERT":51.00}
publish ok
```

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IMAGES OF IBM CLOUD:



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The screenshot shows the IBM Watson IoT Platform dashboard. The top navigation bar includes 'Browse', 'Action', 'Device Types', and 'Interfaces'. A sidebar on the left contains icons for various functions. The main content area displays details for a device named 'ANJALI.K', which is 'Connected'. The 'Recent Events' tab is selected, showing a table of live data events. The events include 'ALERT' and 'distance' values, all in JSON format, received 'a few seconds ago'.

| Event | Value | Format | Last Received |
|----------|------------------|--------|-------------------|
| ANJALI.K | {"ALERT":86} | json | a few seconds ago |
| ANJALI.K | {"ALERT":78} | json | a few seconds ago |
| ANJALI.K | {"ALERT":37} | json | a few seconds ago |
| ANJALI.K | {"distance":183} | json | a few seconds ago |
| ANJALI.K | {"distance":128} | json | a few seconds ago |

This screenshot shows the same IBM Watson IoT Platform dashboard as above, but with updated data. The device 'ANJALI.K' remains 'Connected'. The 'Recent Events' table now shows different values for the 'ALERT' and 'distance' events, all still in JSON format and received 'a few seconds ago'.

| Event | Value | Format | Last Received |
|----------|------------------|--------|-------------------|
| ANJALI.K | {"ALERT":39} | json | a few seconds ago |
| ANJALI.K | {"ALERT":73} | json | a few seconds ago |
| ANJALI.K | {"distance":167} | json | a few seconds ago |
| ANJALI.K | {"ALERT":50} | json | a few seconds ago |