

ASSIGNMENT 4

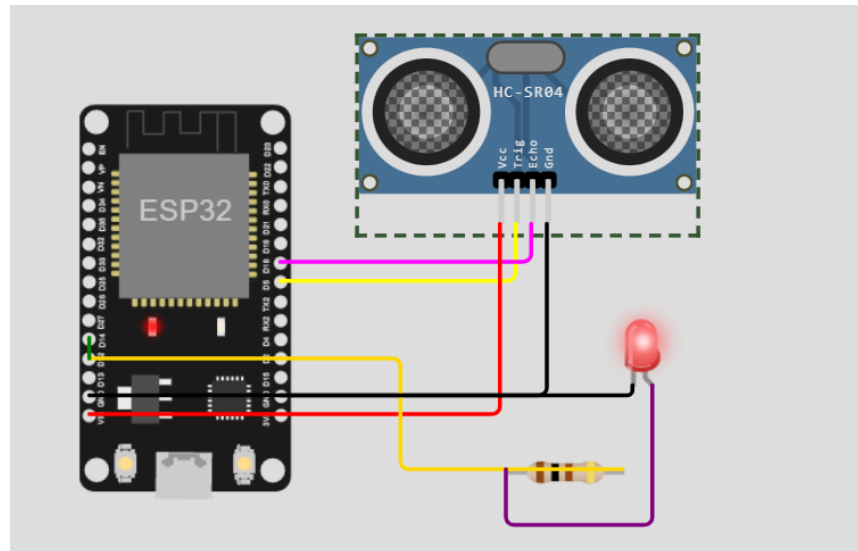
TEAM ID: PNT2022TMIDO5128

Ultrasonic Sensor Simulation In Wokwi

Wokwi simulation link:

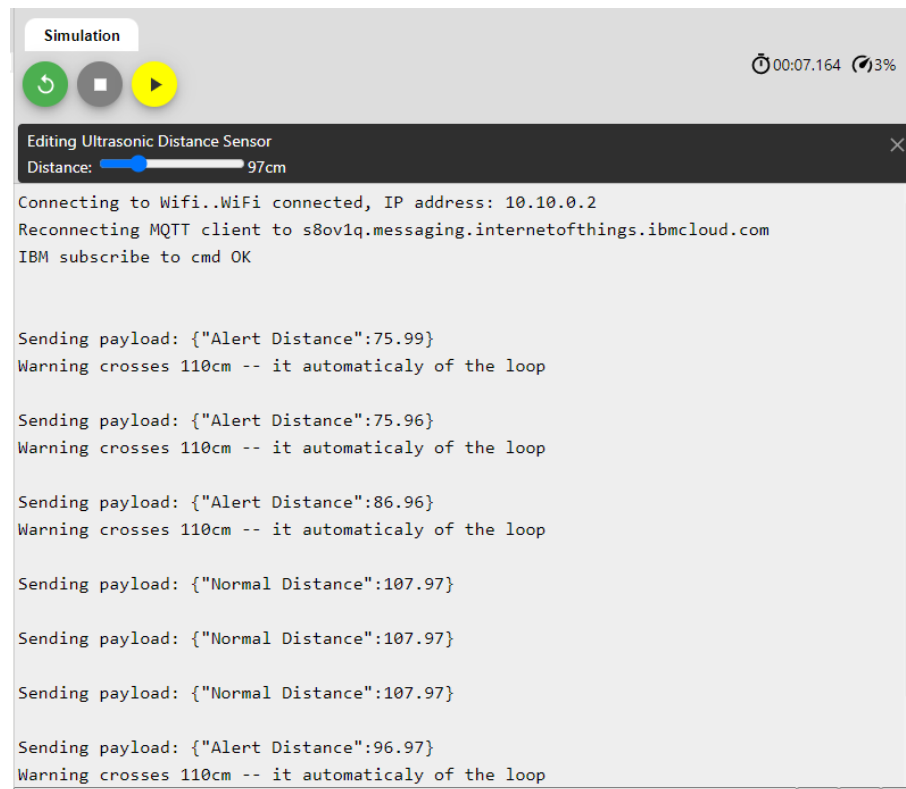
<https://wokwi.com/projects/346508314441417298>

Circuit Diagram:



Output:

Wokwi output:



The screenshot shows the Wokwi simulation interface. At the top, there's a 'Simulation' tab and a status bar showing '00:07.164' and '3%' battery. Below the status bar is a control panel with three buttons: a green circular arrow (refresh), a grey square (stop), and a yellow play button. A dark overlay titled 'Editing Ultrasonic Distance Sensor' is visible, showing a slider for 'Distance' set to '97cm'. The main output window displays the following text:

```
Connecting to Wifi..WiFi connected, IP address: 10.10.0.2
Reconnecting MQTT client to s8ov1q.messaging.internetofthings.ibmcloud.com
IBM subscribe to cmd OK

Sending payload: {"Alert Distance":75.99}
Warning crosses 110cm -- it automaticaly of the loop

Sending payload: {"Alert Distance":75.96}
Warning crosses 110cm -- it automaticaly of the loop

Sending payload: {"Alert Distance":86.96}
Warning crosses 110cm -- it automaticaly of the loop

Sending payload: {"Normal Distance":107.97}

Sending payload: {"Normal Distance":107.97}

Sending payload: {"Normal Distance":107.97}

Sending payload: {"Alert Distance":96.97}
Warning crosses 110cm -- it automaticaly of the loop
```

IBM cloud output:

Event	Value	Format	Last Received
Data	{"Normal Distance":89.95}	json	a few seconds ago
Data	{"Normal Distance":89.95}	json	a few seconds ago
Data	{"Normal Distance":89.95}	json	a few seconds ago
Data	{"Normal Distance":89.95}	json	a few seconds ago
Data	{"Normal Distance":89.95}	json	a few seconds ago

Event	Value	Format	Last Received
Data	{"Alert distance":106.98}	json	a few seconds ago
Data	{"Alert distance":107.03}	json	a few seconds ago
Data	{"Alert distance":106.98}	json	a few seconds ago
Data	{"Alert distance":106.98}	json	a few seconds ago
Data	{"Alert distance":106.98}	json	a few seconds ago