

ASSIGNMENT-4

Name	Shyam M
Team ID	PNT2022TMID21301
Topic	Smart solution for Railways

Task:

Write code and connections in wokwi for the ultrasonic sensor.

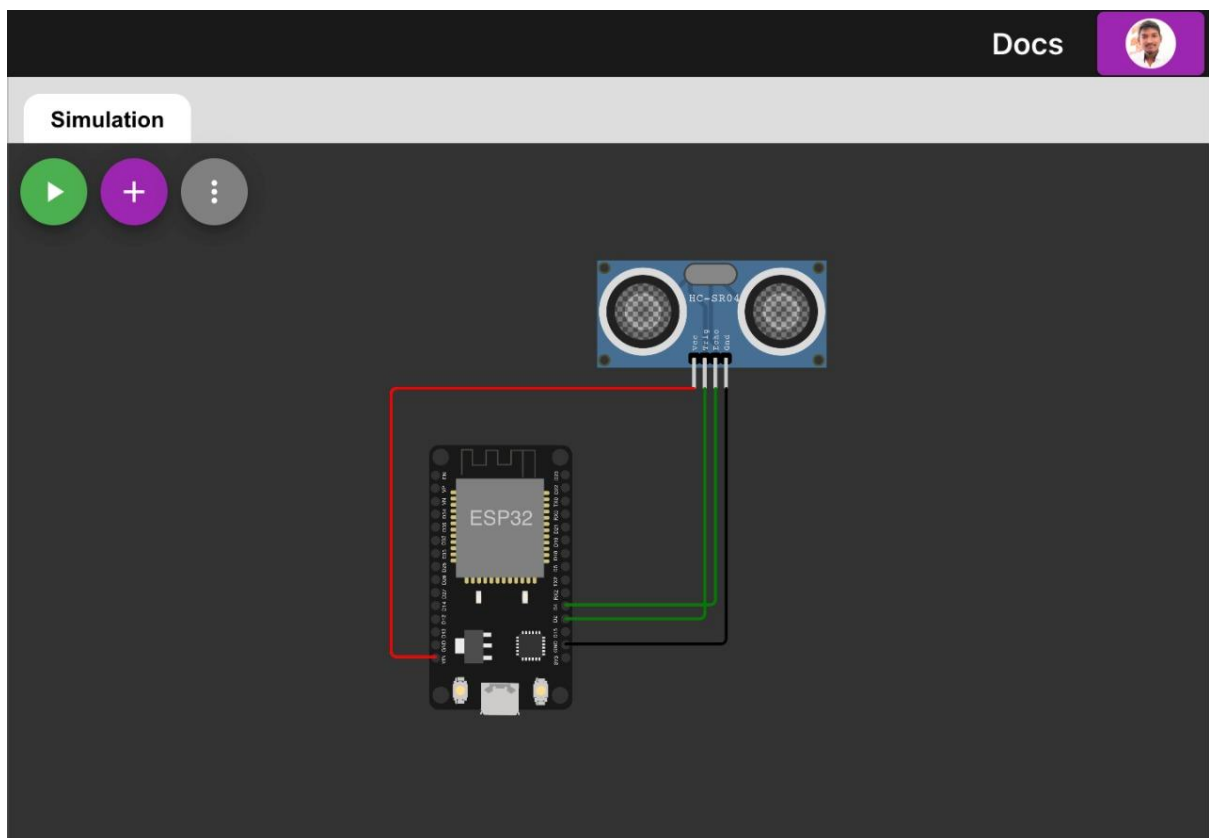
Whenever the distance is less than 100 cms send an "alert" to the IBM cloud and display in the device recent events.

Upload document with wokwi share link and images of IBM cloud

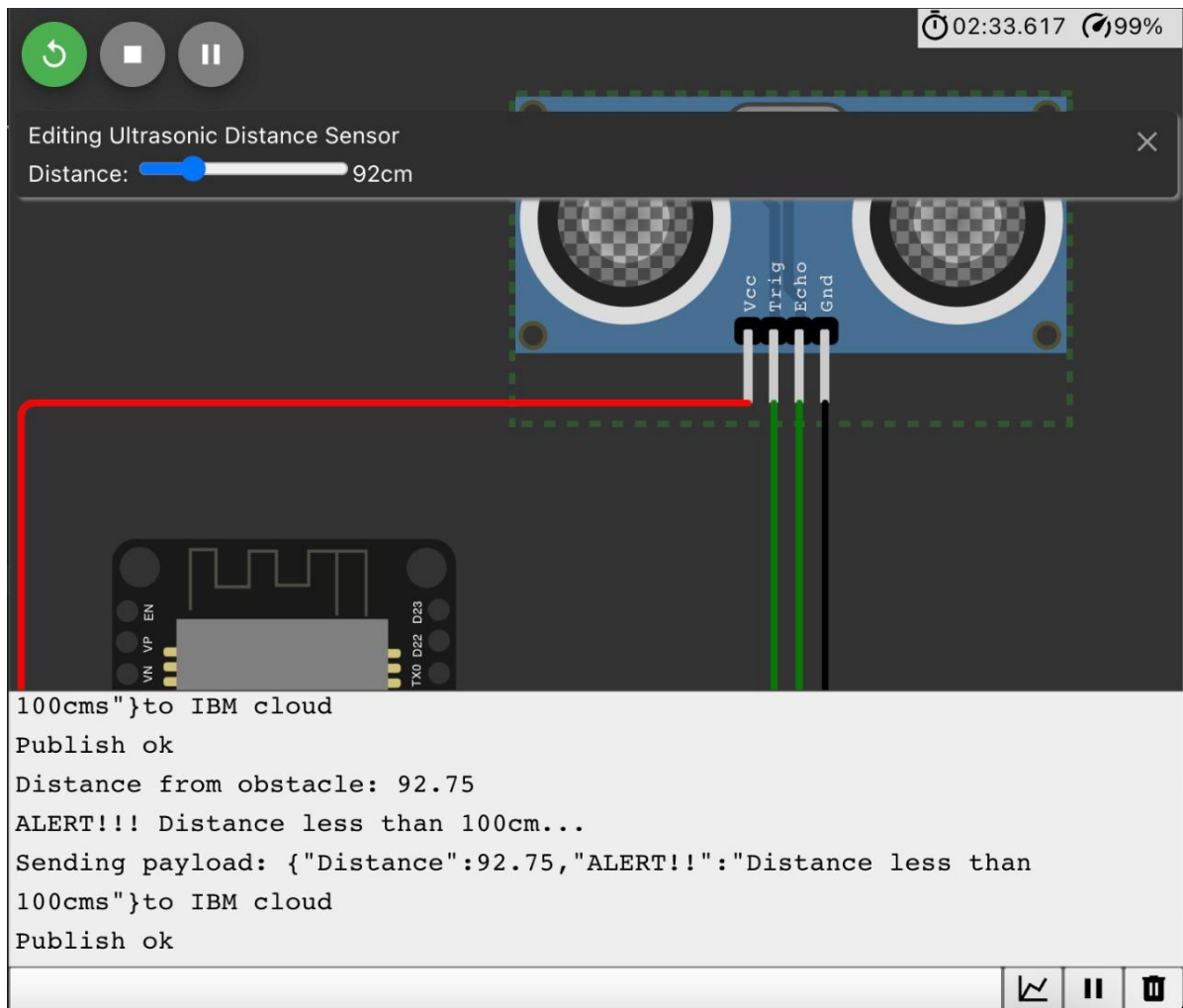
Wokwi share link:

<https://wokwi.com/projects/346875154762039891>

Connections:



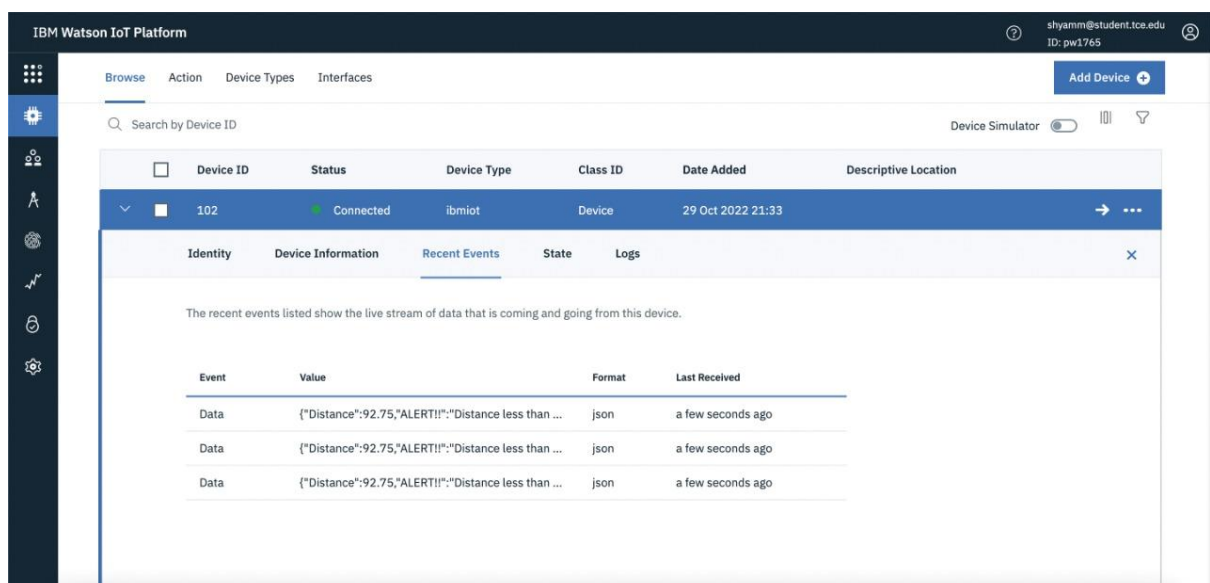
Wokwi output:



Editing Ultrasonic Distance Sensor
Distance: 92cm

100cms"}to IBM cloud
Publish ok
Distance from obstacle: 92.75
ALERT!!! Distance less than 100cm...
Sending payload: {"Distance":92.75,"ALERT!!":"Distance less than 100cms"}to IBM cloud
Publish ok

IBM Cloud output:



IBM Watson IoT Platform

shyamim@student.tca.edu
ID: pw1765

Browse Action Device Types Interfaces

Search by Device ID

Device Simulator

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
102	Connected	ibmiot	Device	29 Oct 2022 21:33	

Identity Device Information Recent Events State Logs

The recent events listed show the live stream of data that is coming and going from this device.

Event	Value	Format	Last Received
Data	{"Distance":92.75,"ALERT!!":"Distance less than ...	json	a few seconds ago
Data	{"Distance":92.75,"ALERT!!":"Distance less than ...	json	a few seconds ago
Data	{"Distance":92.75,"ALERT!!":"Distance less than ...	json	a few seconds ago