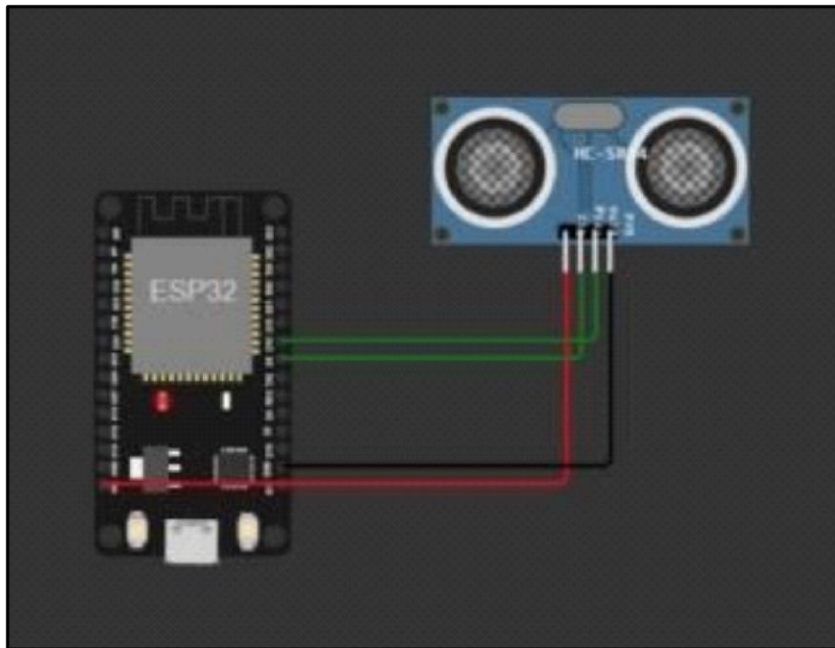


## Circuit diagram



## WOKWI LINK:

<https://wokwi.com/projects/347022808948146772>

## OUTPUT:

WOKWI

sketch.ino diagram.json libraries.txt Library Manager

```
1 #include <WiFi.h>
2 #include <PubSubClient.h>
3 WiFiClient wificlient;
4 #define ORG "jant3i"
5 #define DEVICE_TYPE "raspberrypi"
6 #define DEVICE_ID "12345"
7 #define TOKEN "12345678"
8 #define speed 0.034
9 char server[] = ORG".messaging.internetofthings.ibmcloud.com"; char
10 publishTopic[] = "iot-2/evt/raspberrypi_1/fmt/json";
11 char topic[] = "iot-2/cmd/home/fmt/String";
12 char authMethod[] = "use-token-auth";
13 char token[] = TOKEN;
14
15 char clientId[] = "d:" ORG ":" DEVICE_TYPE ":" DEVICE_ID;
16 PubSubClient client(server, 1883, wificlient);
17 void publishData();
18 const int trigpin=5;
19 const int echopin=18;
20 String command;
21 String data="";
22 long duration;
23 float dist;
24
25 void setup()
26 {
27   Serial.begin(115200);
28   pinMode(trigpin, OUTPUT);
29   pinMode(echopin, INPUT);
30   wifiConnect();
31   mqttConnect();
32 }
33 void loop() {
34   publishData();
```

Simulation

Connecting to Wifi...Wifi connected, IP address: 10.10.0.2  
Reconnecting MQTT client to jant3i.messaging.internetofthings.ibmcl  
subscribe to cmd OK

Inbox (1) - vicky

Complete Sign

Service Details

IBM Watson IoT

Inbox (1) - vicky

sketchuno - Wo

Complete Sign

sketchuno - Wo

+

jen131.internetofthings.ibmcloud.com/dashboard/devices/browse

vickyengineer183@gmail.com  
ID: jen131

IBM Watson IoT Platform

Overview

Action

Device Types

Interfaces

Add Device

Device ID	Status	Device Type	Class ID	Date Added	Descriptive Location
12345	Connected	raspberrypi	Device	Oct 28, 2022 2:47 PM	
raspberrypi_1	Disconnected	raspberrypi	Device	Oct 29, 2022 3:26 PM	

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
event_1	{"Alert distance":53}	json	a few seconds ago
event_1	{"Alert distance":93}	json	a few seconds ago
event_1	{"Alert distance":90}	json	a minute ago
event_1	{"Alert distance":63}	json	a minute ago
event_1	{"Alert distance":4}	json	2 minutes ago

1 Simulation running

27°C  
Rain to stop

ENG IN 14:16 31-10-2022