

ASSIGNMENT-1

A.ANANTHA KUMARAN

HOLY CROSS ENGINEERING COLLEGE

III-YEAR ECE



wokwi.com/projects/31234656



16

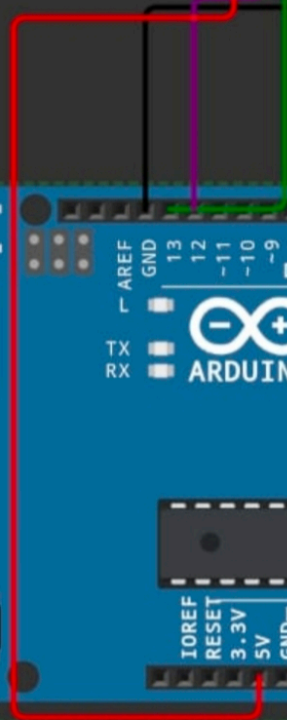
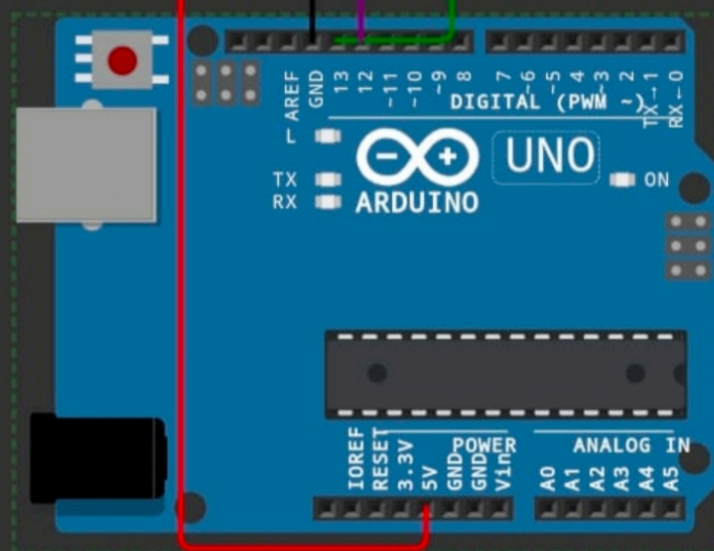
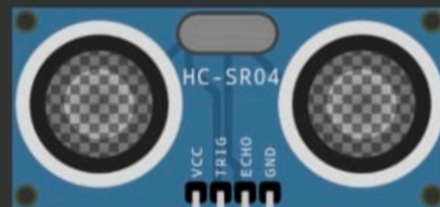


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Simulation

Code



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Simulation

Code

hc-sr04-Ultrasonic-Simulation.ino

diagram.json

Ultrasonic.h

Ultrasonic.cpp

Library Manager

```

1
2   Ultrasonic Simple
3   Prints the distance read by an ultrasonic sensor in
4   centimeters. They are supported to four different
5   sensors (like HC-SC04) and three pins (two for
6   and Seeed Studio sensors).
7
8   The circuit:
9   * Module HC-SC04 (four pins) or PING)))
10  | three pins), attached to digital pins
11  -----
12  | HC-SC04 | Arduino |          | 3 pins | Arduino
13  -----
14  |   Vcc   |   5V    |          | Vcc   | 5V
15  |   Trig  |   12    | OR      | SIG   | 1
16  |   Echo  |   13    |          | Gnd   | 0
17  |   Gnd   |   GND   |          | -----
18  -----
19  Note: You do not obligatorily need to use
20
21  By default, the distance returned by the
22  method is in centimeters. To get the distance in
23  pass INC as a parameter.
24  Example: ultrasonic.read(INC)
25
26  created 3 Apr 2014
27  by Erick Simões (github: @ErickSimoes)
28  modified 23 Jan 2017
29  by Erick Simões (github: @ErickSimoes)
30  modified 03 Mar 2017
31  by Erick Simões (github: @ErickSimoes)
32  modified 11 Jun 2018
33  by Erick Simões (github: @ErickSimoes)
34
35  This example code is released into the
36
37

```



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```
36 /
37
38 #include "Ultrasonic.h"
39
40 /*
41 | Pass as a parameter the trigger and e
42 | or only the signal pin (for sensors 3
43 | Ultrasonic ultrasonic(13);
44 */
45 Ultrasonic ultrasonic(12, 13);
46 int distance;
47
48 void setup() {
49 | Serial.begin(9600);
50 }
51
52 void loop() {
53 | // Pass INC as a parameter to get the
54
55 | distance = ultrasonic.read(CM);
56
57 | Serial.print("Distance in CM: ");
58 | Serial.println(distance);
59
60 | distance = ultrasonic.read(INC);
61
62 | Serial.print("Distance in Inches: ");
63 | Serial.println(distance);
64
65 | delay(1000);
66 }
```