**CONNECTIONS IN WOKWI FOR ULTRASONIC SENSOR**

**CODE:**

**Sketch.ino:**

**/\***

**Ultrasonic Simple**

**Prints the distance read by an ultrasonic sensor in**

**centimeters. They are supported to four pins ultrasound**

**sensors (liek HC-SC04) and three pins (like PING)))**

**and Seeed Studio sensors).**

**The circuit:**

**\* \* Module HR-SC04 (four pins) or PING))) (and other with**

**three pins), attached to digital pins as follows:**

**--------------------- --------------------**

**| HC-SC04 | Arduino | | 3 pins | Arduino |**

**--------------------- --------------------**

**| Vcc | 5V | | Vcc | 5V |**

**| Trig | 12 | OR | SIG | 13 |**

**| Echo | 13 | | Gnd | GND |**

**| Gnd | GND | --------------------**

**---------------------**

**\*/**

**#include "Ultrasonic.h"**

**/\***

**Pass as a parameter the trigger and echo pin, respectively,**

**or only the signal pin (for sensors 3 pins), like:**

**Ultrasonic ultrasonic(13);**

**\*/**

**Ultrasonic ultrasonic(12, 13);**

**int distance;**

**void setup() {**

**Serial.begin(9600);**

**}**

**void loop() {**

**// Pass INC as a parameter to get the distance in inches**

**distance = ultrasonic.read(CM);**

**Serial.print("Distance in CM: ");**

**Serial.println(distance);**

**distance = ultrasonic.read(INC);**

**Serial.print("Distance in Inches: ");**

**Serial.println(distance);**

**delay(1000);**

**}**

**Diagram.json:**

**{**

**"version": 1,**

**"author": "KEERTHANA P",**

**"editor": "wokwi",**

**"parts": [**

**{ "type": "wokwi-arduino-uno", "id": "uno", "top": 64.67, "left": 53.33, "attrs": {} },**

**{ "type": "wokwi-hc-sr04", "id": "ultrasonic1", "top": -63.04, "left": 30, "attrs": {} }**

**],**

**"connections": [**

**[ "ultrasonic1:VCC", "uno:5V", "red", [ "v20.58", "h-83.56", "v221.33", "h194.67" ] ],**

**[ "ultrasonic1:GND", "uno:GND.1", "black", [ "v15.24", "h42.11" ] ],**

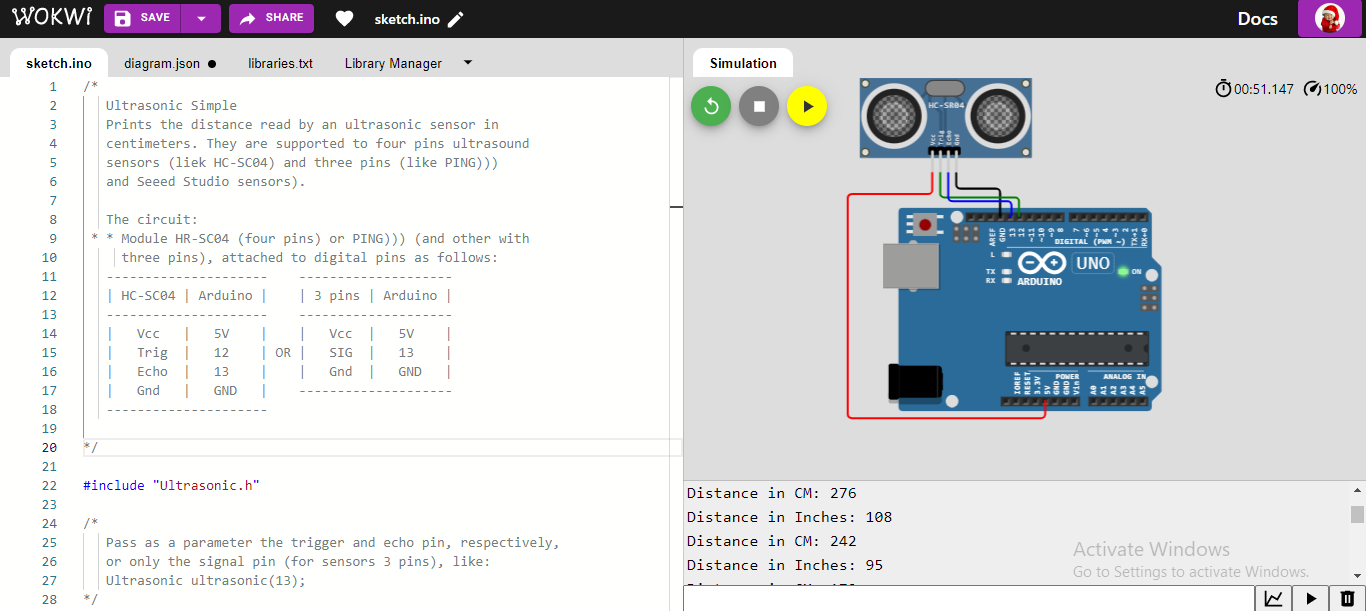
**[ "ultrasonic1:ECHO", "uno:13", "green", [ "v17.24", "h-1.34", "v3.33", "h63.33" ] ],**

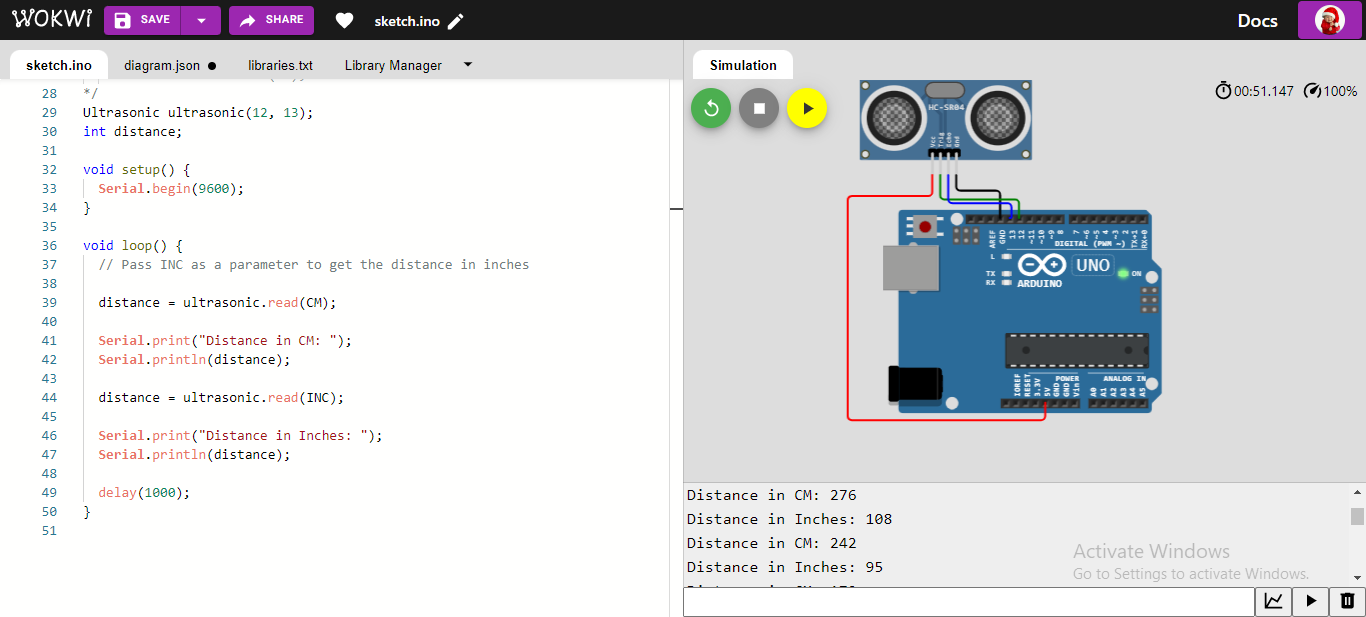
**[ "ultrasonic1:TRIG", "uno:12", "green", [ "v23.91", "h77.89", "v2.67" ] ]**

**]**

**}**

**OUTPUT:**

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**LINK:**https://wokwi.com/projects/346962674371789396