**Experiment 2.1**

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**Subject Name: IOT LAB Subject Code: 20CSP\_358**

1. **Aim:**

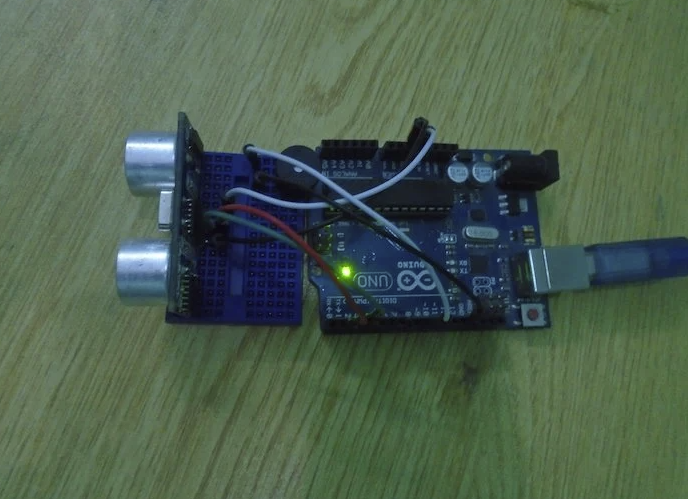
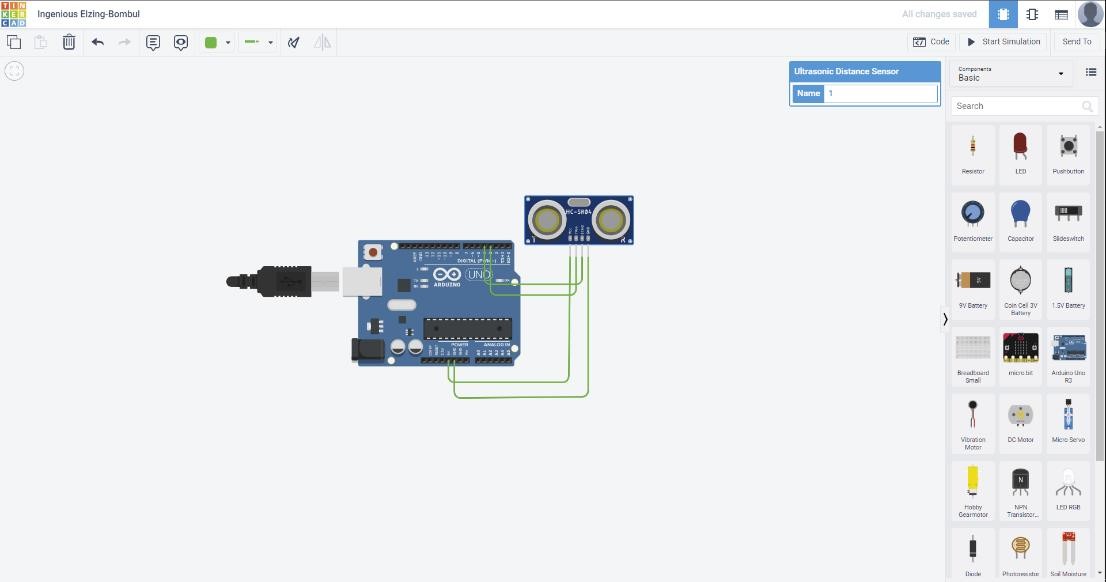
Demonstration of the working of Ultrasonic sensor using Arduino board.

1. **Objective:** 
   * Learn about IoT based simulations.
   * Learning the circuitry.

1. **Code-Output:** 
   * Hardware Requirement

o Arduino Uno

o Ultrasonic

* Circuitry

#define echo\_pin 4

#define trig\_pin 3

long duration\_0;

int distance\_0;

void setup () {

pinMode (trig\_pin, OUTPUT);

pinMode (echo\_pin, INPUT);

Serial.begin (9600);

Serial.println("ultrasonic distance fin...");

}

void loop() {

digitalWrite (trig\_pin, LOW);

delayMicroseconds (2);

digitalWrite (trig\_pin, HIGH);

delayMicroseconds (10) ;

digitalWrite (trig\_pin, LOW);

duration\_0 = pulseIn (echo\_pin, HIGH);

distance\_0 = duration\_0+ 0.034 / 2;

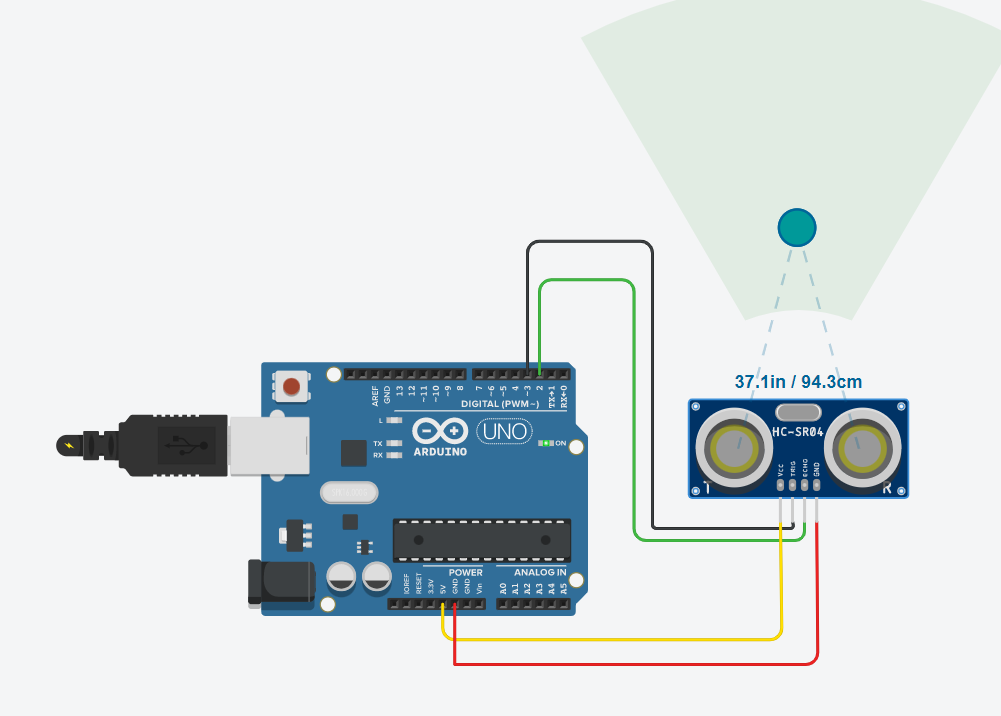
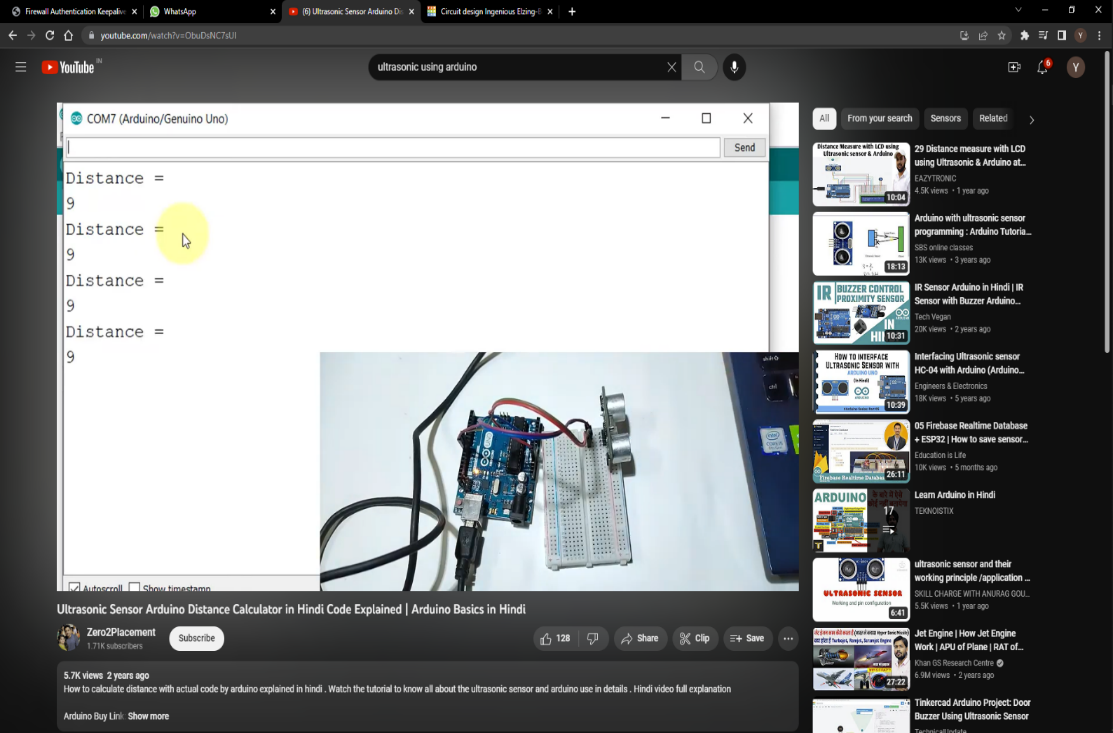
Serial.print ("distance: ");

Serial.print (distance\_0);

Serial.println(" cm");

}

**OUTPUT : -**

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