**Experiment 1.3**

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**Semester: 6 Date of Performance: 06/03/23**

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

## Aim:

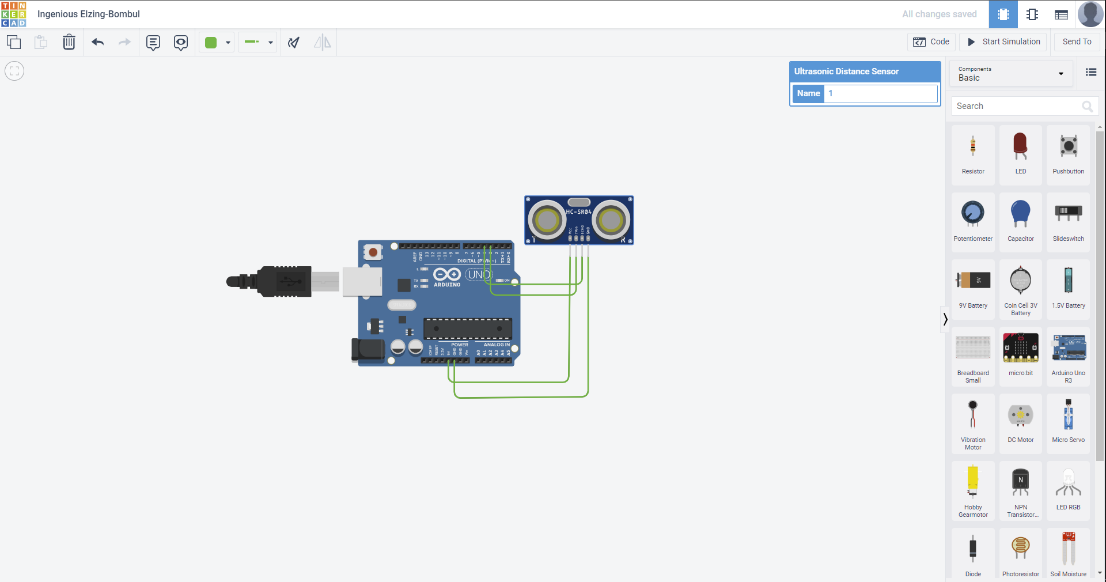
Demonstration of Autodesk Tinkercad Simulation Platform.

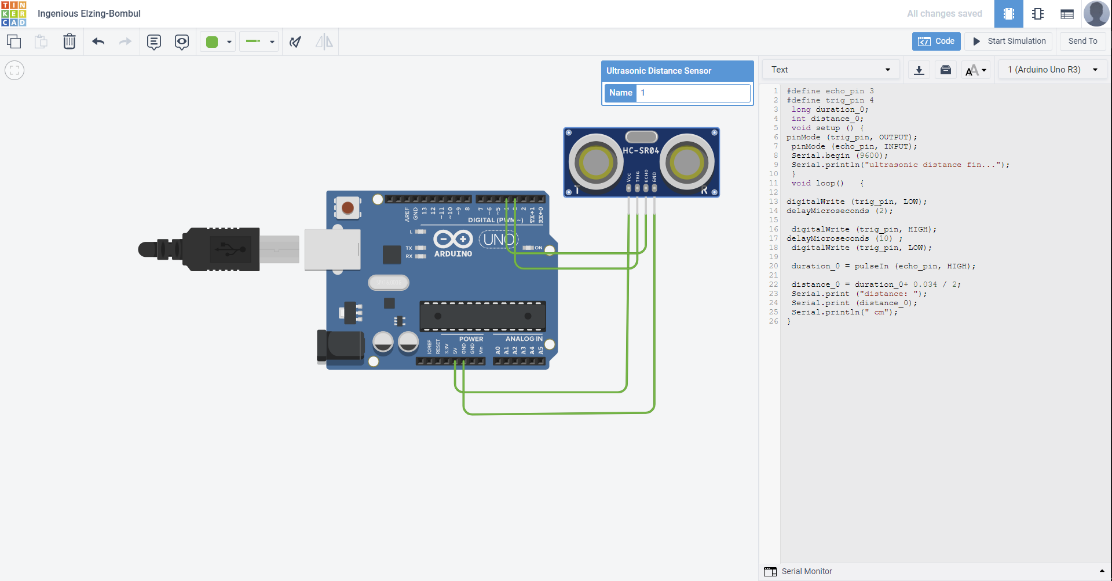
## Objective:

* Learn about IoT based simulations.
* Testing and model in IoT based simulation platform.

## Code-Output:

* Hardware Requirement
  + Arduino Uno
  + Ultrasonic





**#define echo\_pin 3**

**#define trig\_pin 4**

**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 : -**

