IOT LAB - 5th Sem

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Program No: 10

Program Title: Ultrasound Distance Sensor

Aim:

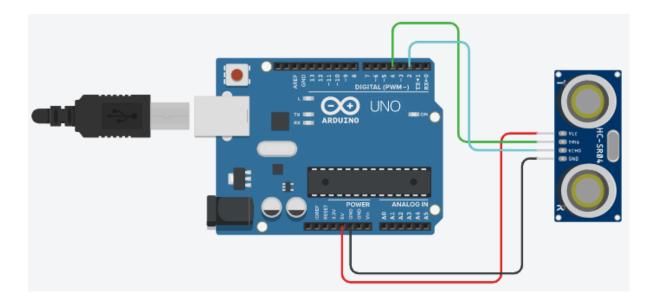
To measure distance using an ultrasound sensor and an Arduino Uno board.

Hardware Required:

• Arduino Uno Board

• HC-SR04 Ultrasound Sensor

Circuit Diagram:



Written Code:

```
I OT LAB-10
                                   Sayed Ayman Bukhari
 int trig fin = 4:
 long duration, cm, inches;
void setup ()
    Serial begin (9600);
      Pin Mode (this Pin, OUTPUT).
Pin Mode (echolin, INPUT).
Void loop ()
    digital Write (thigfin, LOW);
defay Microseands (5);
digital White (thigfin, MIOH);
    delay Microseconds (10).
    oligital White (thigpin, LOW).
     Pin Mode (echoPin , INPUT).
     duration = Pulse In (echoPin, MICOH).
     Cm = (duration /2) /29.1.
      inches - (duration /2) / 74.
       Serial . print ("Distance:").
       Serial Print (inches);
       Serial print (in, ").
        Serial print (cm);
Serial print ("cm").
        Sexial Print ()
       delay (2000).
```

Observation / Output:

The distance was measured using the ultrasound sensor.