

IOT LAB

Program no - 10

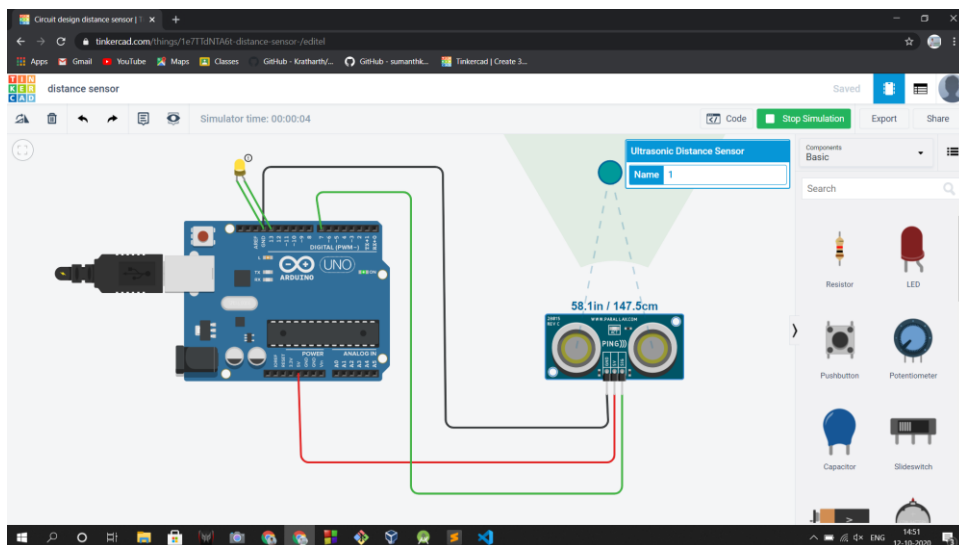
Program Title – Distance Sensor

AIM – Demonstrate the working of ultrasonic distance Sensor

Hardware Required -

- Arduino Board
- Breadboard
- Wires
- **ultrasonic distance Sensor**
- LED

Circuit Diagram -



Code-

LAB 10

18M180099
SHABIR HAN POSE

Distance sensor

Code:

```

const int pingPin = 7;

void setup() {
  Serial.begin(9600);
  pinMode(13, OUTPUT);
}

void loop() {
  long duration, inch, cm;
  pinMode(pingPin, OUTPUT);
  digitalWrite(pingPin, LOW);
  delay(2);
  digitalWrite(pingPin, HIGH);
  delay(10);
  pinMode(7, INPUT);
  duration = pulseIn(7, HIGH);
  inch = duration / 147;    (cm = inch * 2.54);
  Serial.println("Distance in cm :");
  Serial.println(cm);
  Serial.println("Distance in inch :");
  Serial.println(inch);
  delay(1000);
}

```

ML

Observation /Output -

The working ultrasonic distance sensor is observed.