

# IOT LAB

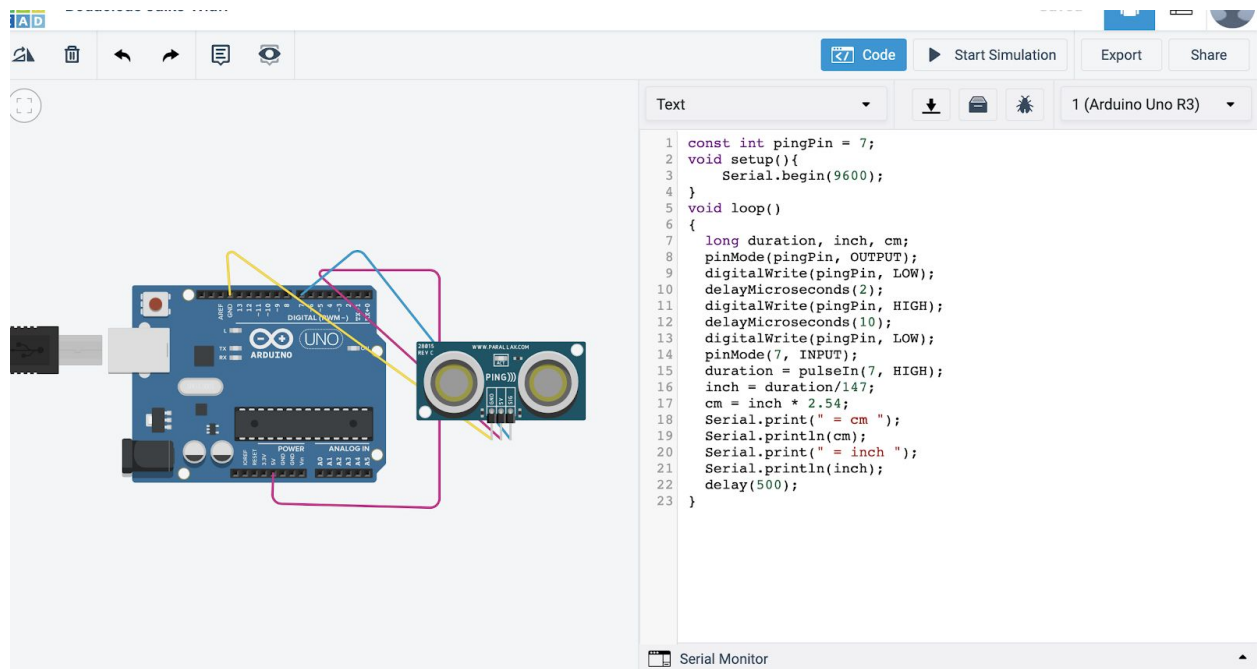
## Program Title – Distance Sensor

**AIM – Demonstrate the working of ultrasonic distance Sensor**

### Hardware Required -

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

### Circuit Diagram -



Code-

Suman Kumar Pal

Ultrasonic

```
const int PingPin = 7;
void setup() {
  Serial.begin(9600);
}
void loop() {
  long duration, inch, cm;
  pinMode(PingPin, OUTPUT);
  digitalWrite(PingPin, LOW);
  delayMicroseconds(2);
  digitalWrite(PingPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(PingPin, LOW);
  pinMode(7, INPUT);
  duration = pulseIn(7, HIGH);
  inch = duration / 147;
  cm = inch * 2.54;
  Serial.print(" = cm");
  Serial.println(cm);
  Serial.print(" = inch");
  Serial.println(inch);
  delay(500);
}
```

**Observation /Output -**

**The working ultrasonic distance sensor is observed.**