

Assignment-1

Code:

```
#define Trigpin 7
#define Echopin 8
#define low_led 9
#define high_led 10
float distance;
int duration;
int ll = 700;
void setup()
{
    pinMode (Trigpin, OUTPUT);
    pinMode (low_led, OUTPUT);
    pinMode (high_led, OUTPUT);
    pinMode (Echopin, INPUT);
    Serial.begin(9600);
    Serial.println ("Welcome To Distance Meter");
    Serial.println ("Coded By Jevins Annson");
    digitalWrite (low_led, LOW);
    digitalWrite (high_led, LOW);
}
void loop() {
    digitalWrite(Trigpin, LOW);
    delayMicroseconds(2);
    digitalWrite(Trigpin, HIGH);
    delayMicroseconds(10);
    digitalWrite(Trigpin, LOW);
    duration = pulseIn(Echopin, HIGH);
    distance = duration * 0.034 / 2;
    delay (ll);
    Serial.println (" ");
    Serial.print ("Distance = ");
    Serial.print (distance);
    Serial.print (" CM");
    Serial.println (" ");
    if (distance>=30) {
        Serial.println ("Nobody Is Infront Of the Sensor");
        digitalWrite (low_led, HIGH); delay (500);
        digitalWrite (low_led, LOW);
        delay (500);
        digitalWrite (low_led, HIGH);
```

```
}  
  else {  
    Serial.println ("Someone Is Infront Of the Sensor");  
    digitalWrite (high_led, HIGH);  
    delay (100);  
    digitalWrite (high_led, LOW);  
    delay (100);  
    digitalWrite (high_led, HIGH);  
    delay (100);  
  }  
}
```

- Prava V