

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);  
  }  
}
```

– Saran S