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);
}
 }
```

- Karthikeyan S