

Schematic:

```
#define Trig 9
#define Echo 8
void setup()
  Serial.begin (9600);
  Drv LED init();
  Drv Ultrasonic init();
void loop()
  long distance = Drv_Ultrasonic_Read();
  Drv LED(distance / 5);
  Serial.print("Distance = ");
  Serial.print(distance);
  Serial.println("[cm]");
void Drv LED init()
  for(int i = 2; i <= 7; i++)</pre>
    pinMode(i, OUTPUT);
    digitalWrite(i,LOW);
void Drv LED(int val)
  for(int i = 2; i <= 7; i++)</pre>
    if(i <= val)
      digitalWrite(i,LOW);
    else
      digitalWrite(i, HIGH);
void Drv_Ultrasonic_init()
  pinMode(Trig, OUTPUT);
  digitalWrite(Trig, LOW);
  pinMode (Echo, INPUT);
}
long Drv_Ultrasonic_Read()
  digitalWrite(Trig, HIGH);
  delayMicroseconds(10);
  digitalWrite(Trig, LOW);
  long distance = pulseIn(Echo, HIGH);
  return (distance * 0.01715);
}
```