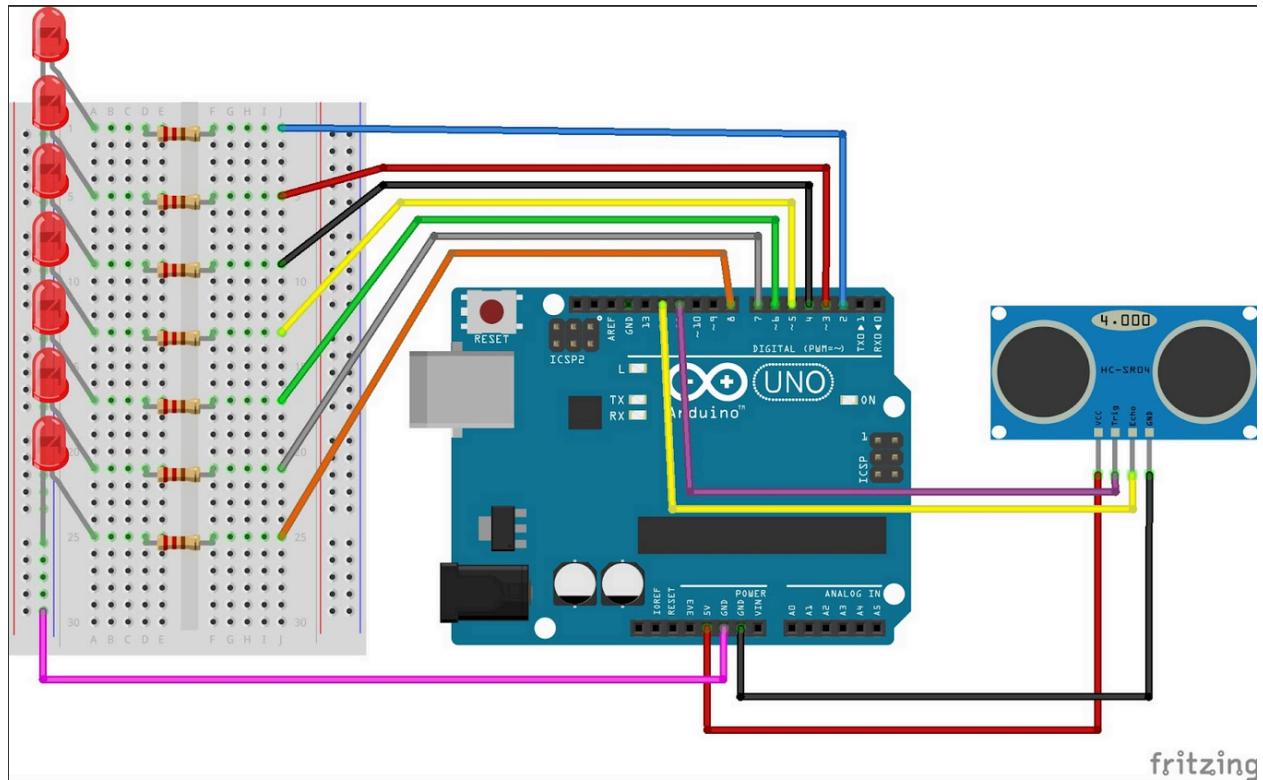


LED proximity indicator with Ultrasonic Sensor

<https://www.youtube.com/watch?v=DF1WGZyAnoE>

Diagram



Code

```
const int trig = 11;  
const int echo = 12;
```

```
const int LED1 = 2;  
const int LED2 = 3;  
const int LED3 = 4;  
const int LED4 = 5;  
const int LED5 = 6;  
const int LED6 = 7;  
const int LED7 = 8;
```

```
int duration = 0;
```

```

int distance = 0;

void setup()
{
  pinMode(trig , OUTPUT);
  pinMode(echo , INPUT);

  pinMode(LED1 , OUTPUT);
  pinMode(LED2 , OUTPUT);
  pinMode(LED3 , OUTPUT);
  pinMode(LED4 , OUTPUT);
  pinMode(LED5 , OUTPUT);
  pinMode(LED6 , OUTPUT);
  pinMode(LED7 , OUTPUT);

  Serial.begin(9600);
}

void loop()
{
  digitalWrite(trig , HIGH);
  delayMicroseconds(1000);
  digitalWrite(trig , LOW);

  duration = pulseIn(echo , HIGH);
  distance = (duration/2) / 28.5 ;
  Serial.println(distance);

  if ( distance <= 5 )
  {
    digitalWrite(LED1, HIGH);
  }
  else
  {
    digitalWrite(LED1, LOW);
  }
  if ( distance <= 7 )
  {
    digitalWrite(LED2, HIGH);
  }
  else

```

```
{
    digitalWrite(LED2, LOW);
}
if ( distance <= 10 )
{
    digitalWrite(LED3, HIGH);
}
else
{
    digitalWrite(LED3, LOW);
}
if ( distance <= 15 )
{
    digitalWrite(LED4, HIGH);
}
else
{
    digitalWrite(LED4, LOW);
}
if ( distance <= 17 )
{
    digitalWrite(LED5, HIGH);
}
else
{
    digitalWrite(LED5, LOW);
}
if ( distance <= 20 )
{
    digitalWrite(LED6, HIGH);
}
else
{
    digitalWrite(LED6, LOW);
}
if ( distance <= 25 )
{
    digitalWrite(LED7, HIGH);
}
else
{
    digitalWrite(LED7, LOW);
}
}
```

