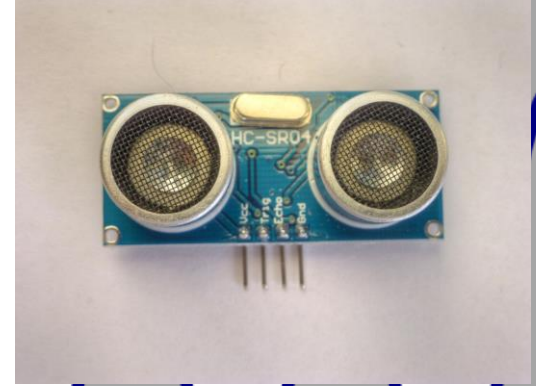
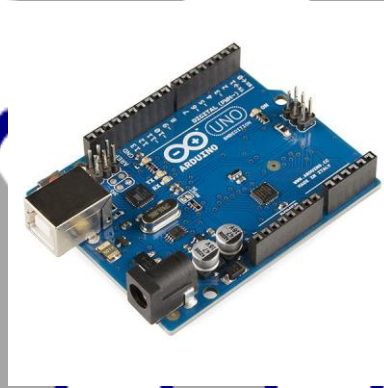


*DIGITAL*  
*DISTANCE*  
*MEASURING*  
*DEVICE*

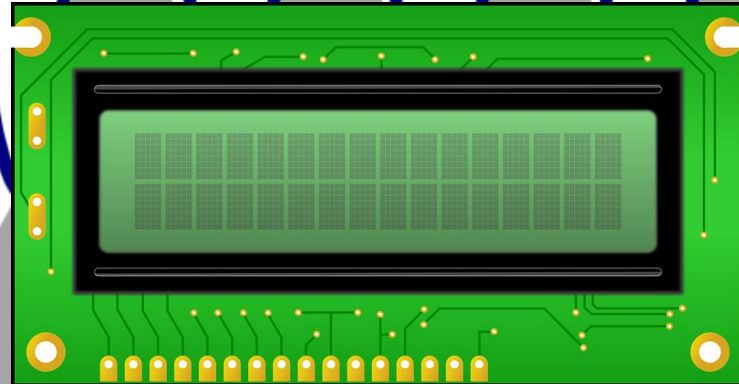
The background is a solid teal color. It features several abstract geometric elements: a large, faint circular graphic with a pie chart segment on the right side, positioned in the upper right; several smaller, semi-transparent circles of varying sizes scattered across the right side; and a bar chart with four vertical bars of increasing height from left to right, located in the bottom right corner.

# COMPONENTS

1. Arduino UNO R3
2. Ultrasonic Sensor



1. LCD 16x2



# CONNECTIONS

## Ultrasonic Sensor

Vcc ==> 5V

Trig ==> 4

Echo ==> 10

Gnd ==> Gnd

## LCD

**RS ==> 12**

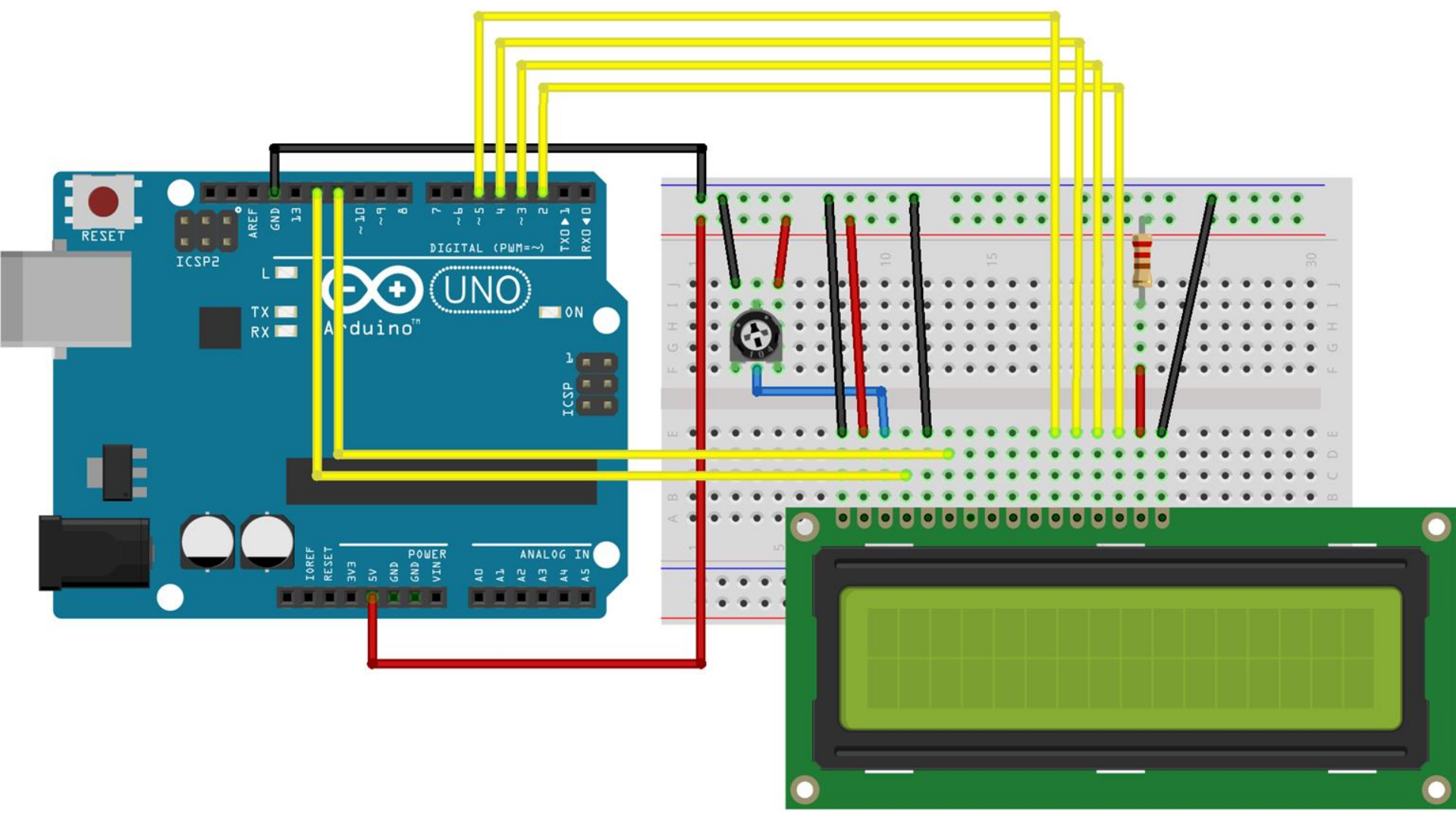
**Enable ==> 11**

**D4 ==> 5**

**D5 ==> 4**

**D6 ==> 3**

**D7 ==> 2**





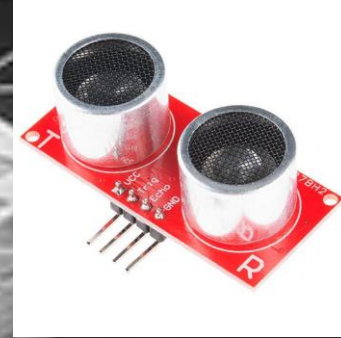
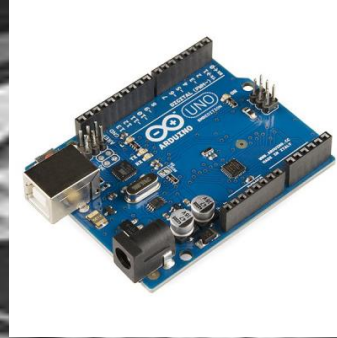
**INTRUDER**

**DETECTOR**

**ALARM**

# COMPONENTS

1. Arduino UNO R3
2. Ultrasonic Sensor
3. Buzzer



# CONNECTIONS

## Ultrasonic Sensor

Vcc ==> 5V

Trig ==> 10

Echo ==> 9

Gnd ==> Gnd

## Buzzer

Vcc ==> 2

Gnd ==> Gnd

A sequence of four traffic lights mounted on a pole, showing the cycle from red to green. The first light is red, the second is yellow, the third is green, and the fourth is yellow. The text 'AUTOMATIC TRAFFIC LIGHT' is overlaid on the image, with 'AUTOMATIC' in red, 'TRAFFIC' in yellow, and 'LIGHT' in green, each underlined.

AUTOMATIC

TRAFFIC

LIGHT

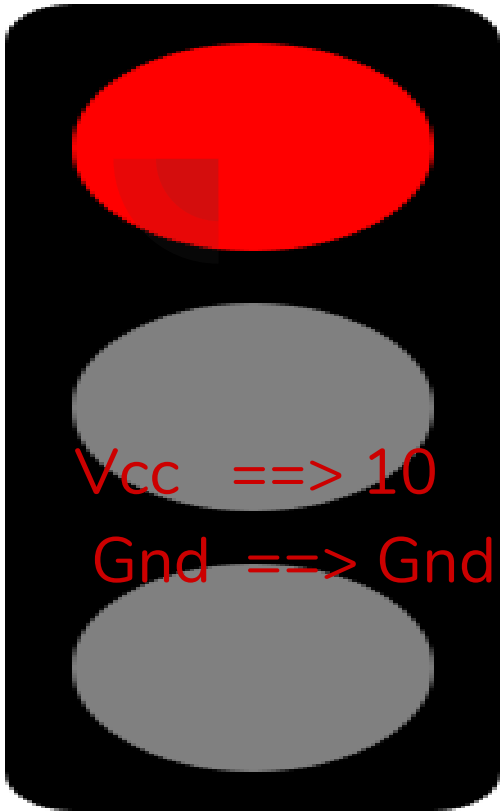


# COMPONENTS

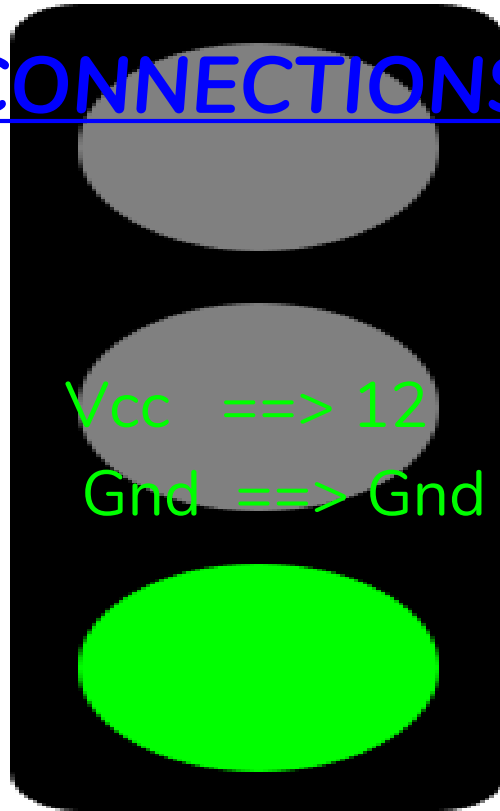
1. Arduino UNO
2. Lights



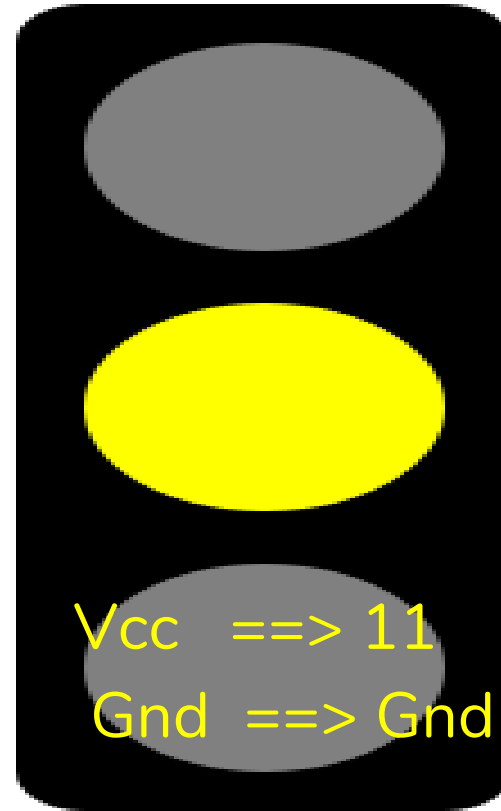
## CONNECTIONS



Vcc ==> 10  
Gnd ==> Gnd



Vcc ==> 12  
Gnd ==> Gnd



Vcc ==> 11  
Gnd ==> Gnd

1

2

3



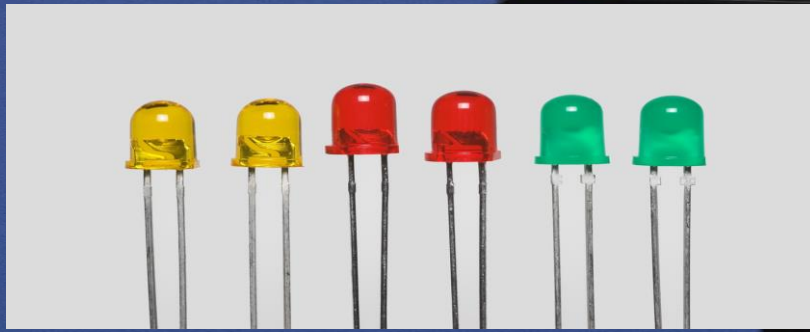
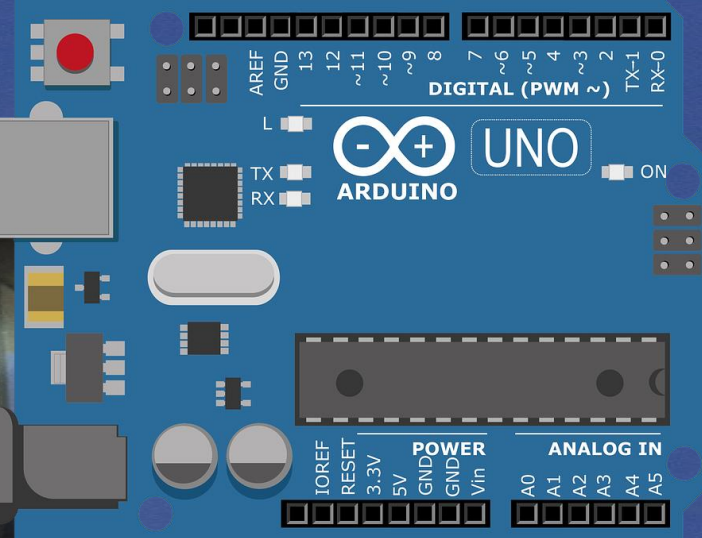
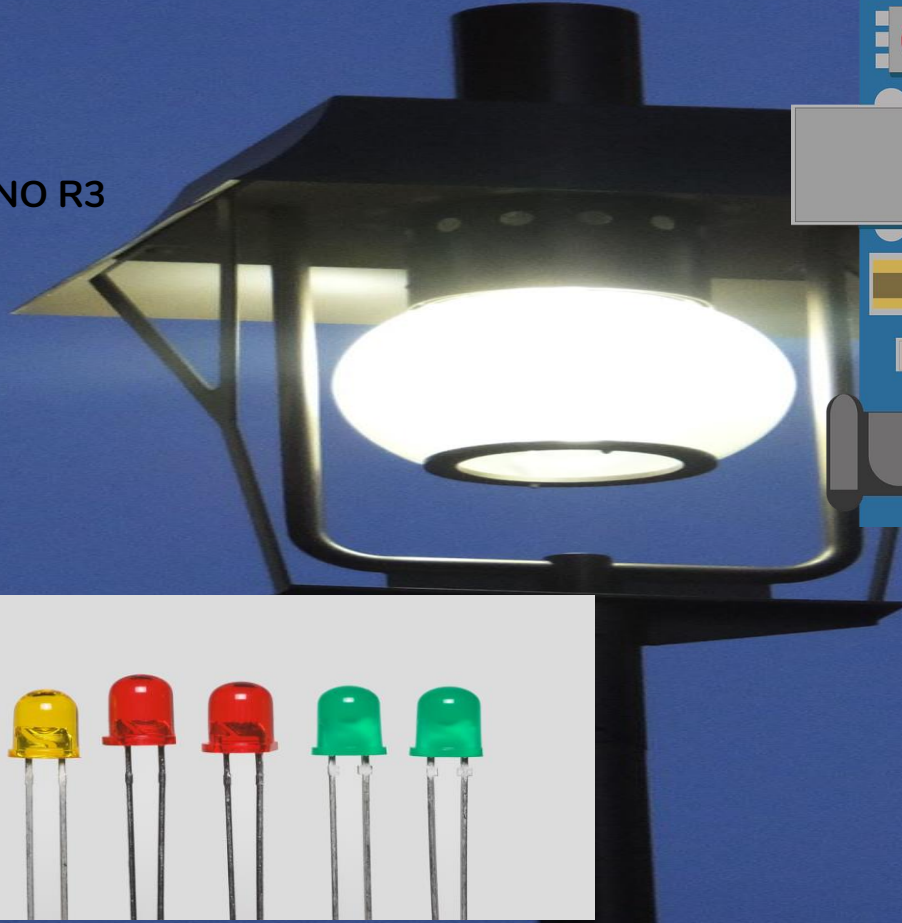
**AUTOMATIC**

**STREET**

**LIGHTS**

# COMPONENTS

1. Arduino UNO R3
2. Lights
3. LDR



# CONNECTIONS

## LDR

Vcc ==> A0

Gnd==> Gnd

## LEDS

Vcc ==> 9, 10, 11, 12, 13

Gnd ==> Gnd

A person's hands are shown in silhouette, holding a bright, glowing light source. The background is a warm, orange and yellow sunset sky. The text 'SMART HOME LIGHTING SYSTEM' is overlaid on the image in a bold, italicized, sans-serif font, with each word underlined.

**SMART**

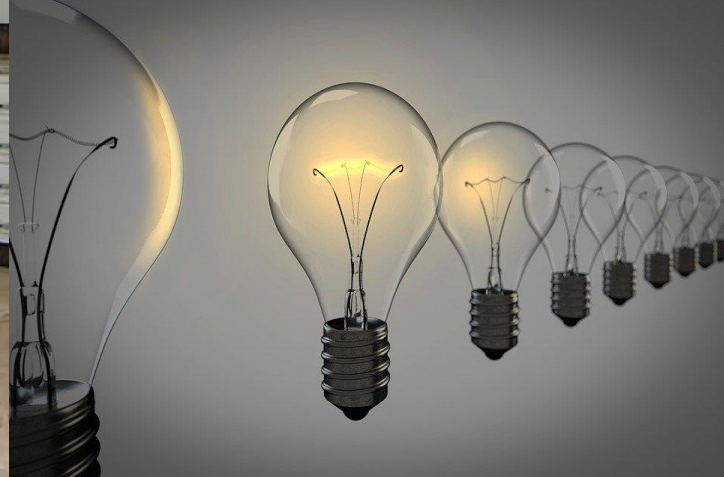
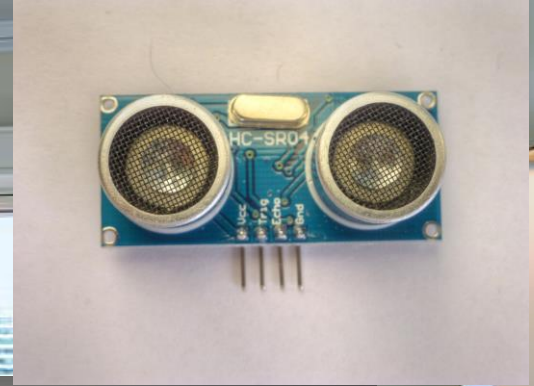
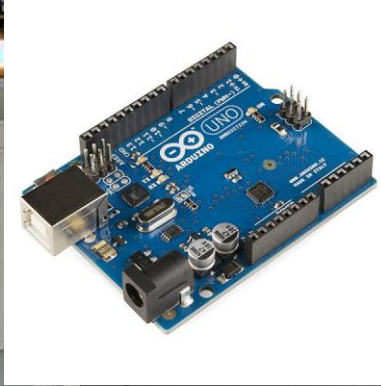
**HOME**

**LIGHTING**

**SYSTEM**

# COMPONENTS

1. Arduino UNO R3
2. Ultrasonic Sensor
3. LEDs



# CONNECTIONS

Ultrasonic Sensor

Vcc ==> 5V

Trig ==> 10

Echo ==> 9

Gnd ==> Gnd

Lights

Vcc ==> 2

Gnd ==> Gnd