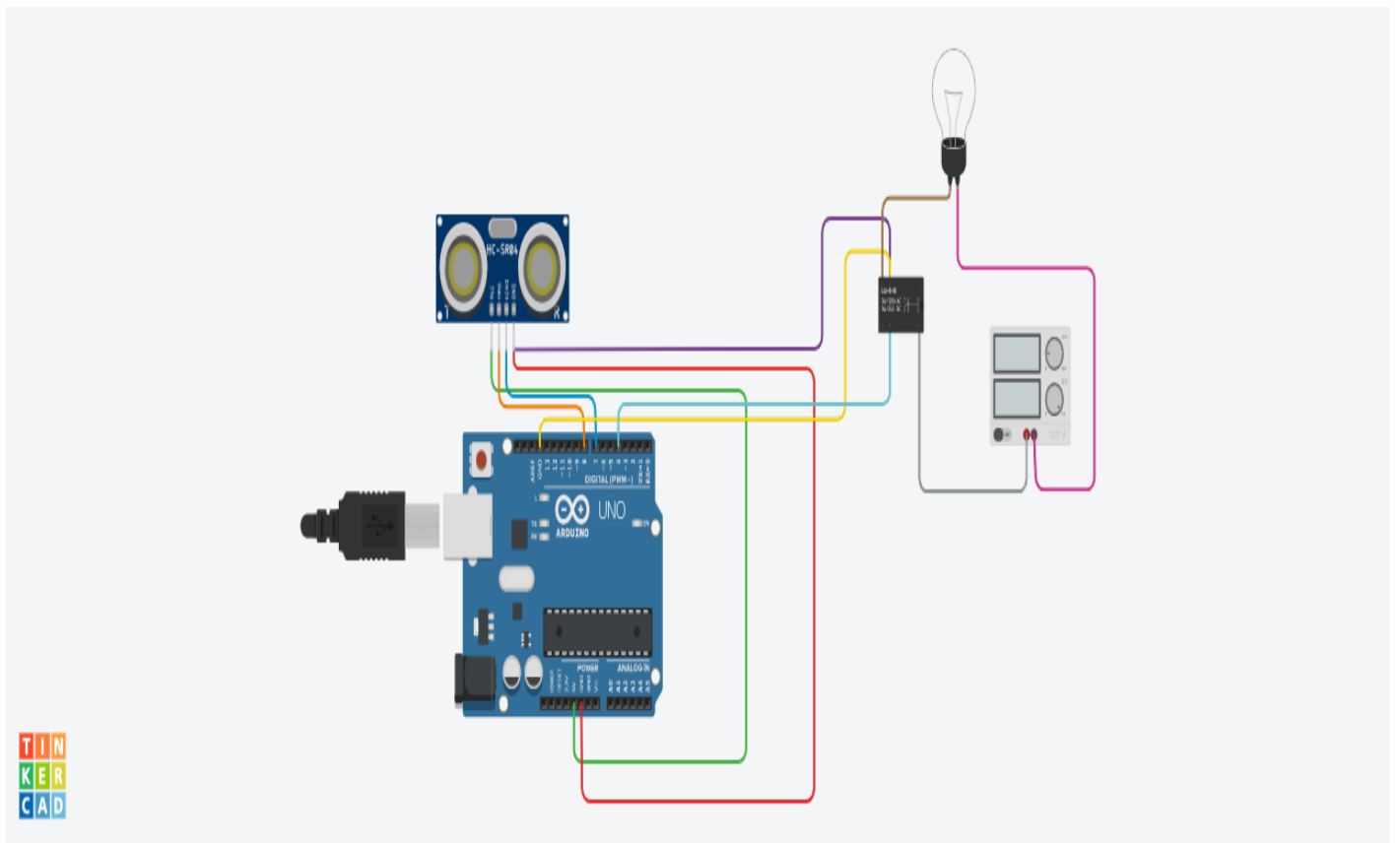


AUTOMATION WITH ULTRASONIC SENSOR

CIRCUIT:



CODE:

```
#include <LiquidCrystal.h>
LiquidCrystal lcd = LiquidCrystal(10,9,8,7,6,5); // Create an LCD
object. Parameters: (RS, E, D4, D5, D6, D7):
const int trigPin = 12;
const int echoPin = 11;
float time, distance;
void setup()
{
    lcd.begin(16, 2); // Specify the LCD's number of columns and rows.
    Change to (20, 4) for a 20x4 LCD
    pinMode(trigPin, OUTPUT);
    pinMode(echoPin, INPUT);
    Serial.begin(9600);

}

void loop()
{
    digitalWrite(trigPin, LOW);
    delayMicroseconds(2);
    digitalWrite(trigPin, HIGH);
    delayMicroseconds(10);
    digitalWrite(trigPin, LOW);

    time = pulseIn(echoPin, HIGH);

    distance = (time*.0343)/2;

    // For Serial Monitor
    Serial.print("Distance:CM ");
    Serial.println(distance);

    // For LCD Display
    lcd.setCursor(0,0);
    lcd.print("Distance in CM");
    lcd.setCursor(0,1);
    lcd.print(distance);

}
```