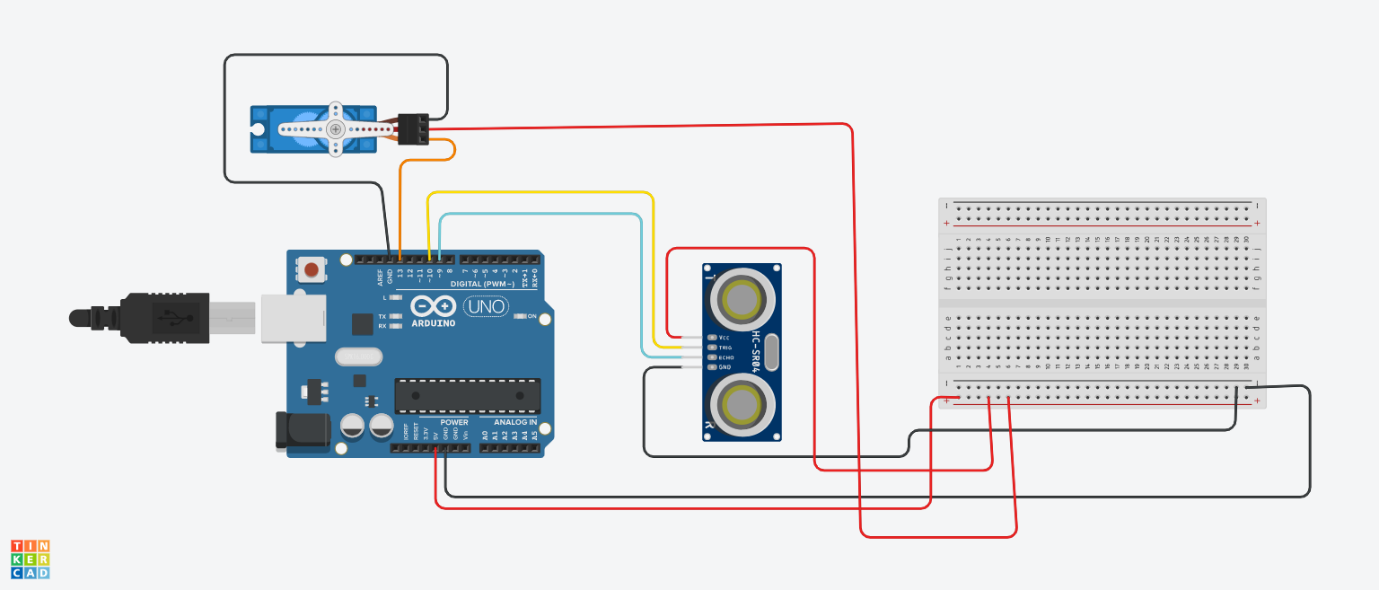
**Figure 1: CIRCUIT DIAGRAM FOR GARAGE OPENER**



CODE:

#include<Servo.h>

Servo myservo;

int trigpin=10;

int echopin=9;

void setup()

{

pinMode(trigpin,OUTPUT);

pinMode(echopin,INPUT);

myservo.attach(13);

Serial.begin(9600);

}

void loop()

{

digitalWrite(trigpin,HIGH);

delay(1000);

digitalWrite(trigpin,LOW);

int duration=pulseIn(echopin,HIGH);

int distance=(duration\*0.034)/2;

Serial.println("the distance is=");

Serial.println(distance);

delay(1000);

if(distance>50)

{

myservo.write(0);

Serial.println("DOOR IS CLOSED");

}

else

{

myservo.write(90);

Serial.println("DOOR IS OPENED");

delay(5000);

}

}

LINK:

[https://www.tinkercad.com/things/70Zd3cJx5ju-assignment-2/editel](#_top)