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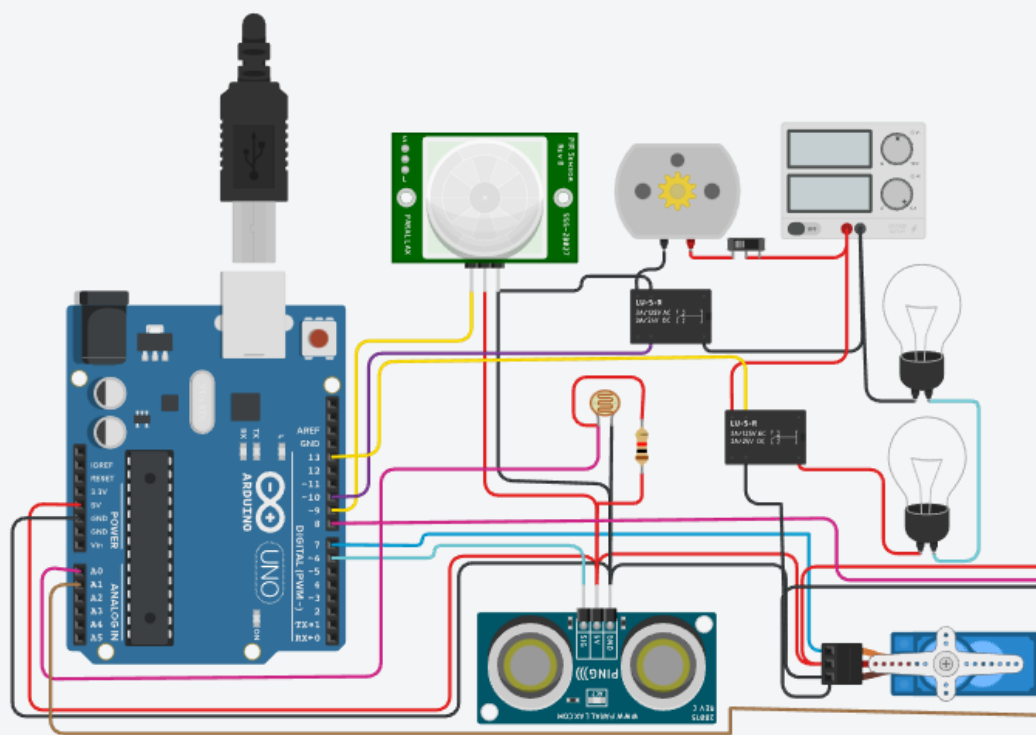
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Code Start Simulation Send To

Text 1 (Arduino Uno R3)

```
1 #include <Servo.h>
2
3 int output1Value = 0;
4 int sen1Value = 0;
5 int sen2Value = 0;
6 int const gas_sensor = A1;
7 int const LDR = A0;
8 int limit = 400;
9
10 long readUltrasonicDistance(int triggerPin, int echoPin)
11 {
12   pinMode(triggerPin, OUTPUT); // Clear the trigger
13   digitalWrite(triggerPin, LOW);
14   delayMicroseconds(2);
15   // Sets the trigger pin to HIGH state for 10 microseconds
16   digitalWrite(triggerPin, HIGH);
17   delayMicroseconds(10);
18   digitalWrite(triggerPin, LOW);
19   pinMode(echoPin, INPUT);
20   // Reads the echo pin, and returns the sound wave travel time in microseconds
21   return pulseIn(echoPin, HIGH);
22 }
23
24 Servo servo_7;
25
26 void setup()
27 {
28   // Serial.begin(9600);
29 }
```

Serial Monitor



The circuit diagram shows an Arduino Uno R3 connected to several sensors and actuators. The ultrasonic sensor is connected to digital pins 4 and 5. The gas sensor is connected to analog pin A1. The LDR sensor is connected to analog pin A0. The servo motor is connected to digital pin 9 and ground. Two light bulbs are connected to digital pins 12 and 13, each through a 220 ohm resistor. The power supply is connected to the 5V and GND pins of the Arduino.