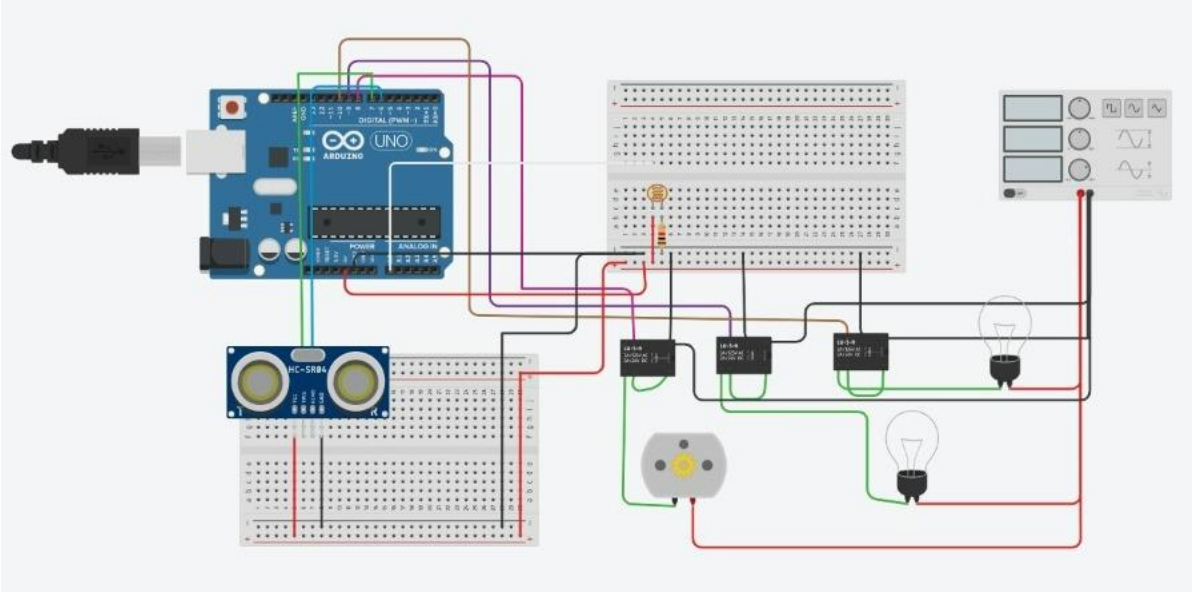


```
#define relay4 3


int ldr1,relay1=11,ldr2,relay2=12,relay3=10;


int cm = 0;

long readUltrasonicDistance(int triggerPin, int echoPin)

{

pinMode(triggerPin, OUTPUT);

digitalWrite(triggerPin, LOW);

delayMicroseconds(2);

digitalWrite(triggerPin, HIGH);

delayMicroseconds(10);

digitalWrite(triggerPin, LOW);

pinMode(echoPin, INPUT);
```

```
return pulseIn(echoPin, HIGH);
}
void setup() {

Serial.begin(9600);
pinMode(A1,INPUT);
pinMode(relay1,OUTPUT); pinMode(A2,INPUT);



pinMode(relay2,OUTPUT);
pinMode(relay3,OUTPUT);
pinMode(relay4,OUTPUT);
digitalWrite(relay1,LOW);
digitalWrite(relay2,LOW);
}
void loop() {

ldr1=analogRead(A1);
Serial.print("ldr1:");
Serial.println(ldr1);
ldr2=analogRead(A2);
Serial.print("ldr2:");
Serial.println(ldr2);
if(ldr1>750&&ldr2>750)
{ digitalWrite(relay1,LOW);
```

```
digitalWrite(relay2,LOW);
}
if(ldr1<700&&ldr2<700)
{
digitalWrite(relay2,HIGH);
digitalWrite(relay1,HIGH);
}
delay(500);
int range;
cm = 0.01723 * readUltrasonicDistance(6, 7);
Serial.print(cm);
Serial.println("cm"); //range=200;



//int height = range-cm;
//Serial.print("HIGHT:");
//Serial.println(height);
if(cm<10)
digitalWrite(relay4,HIGH);
else if(cm>25)
digitalWrite(relay4,LOW);
delay(100); // Wait for 100 millisecond(s)
}
```