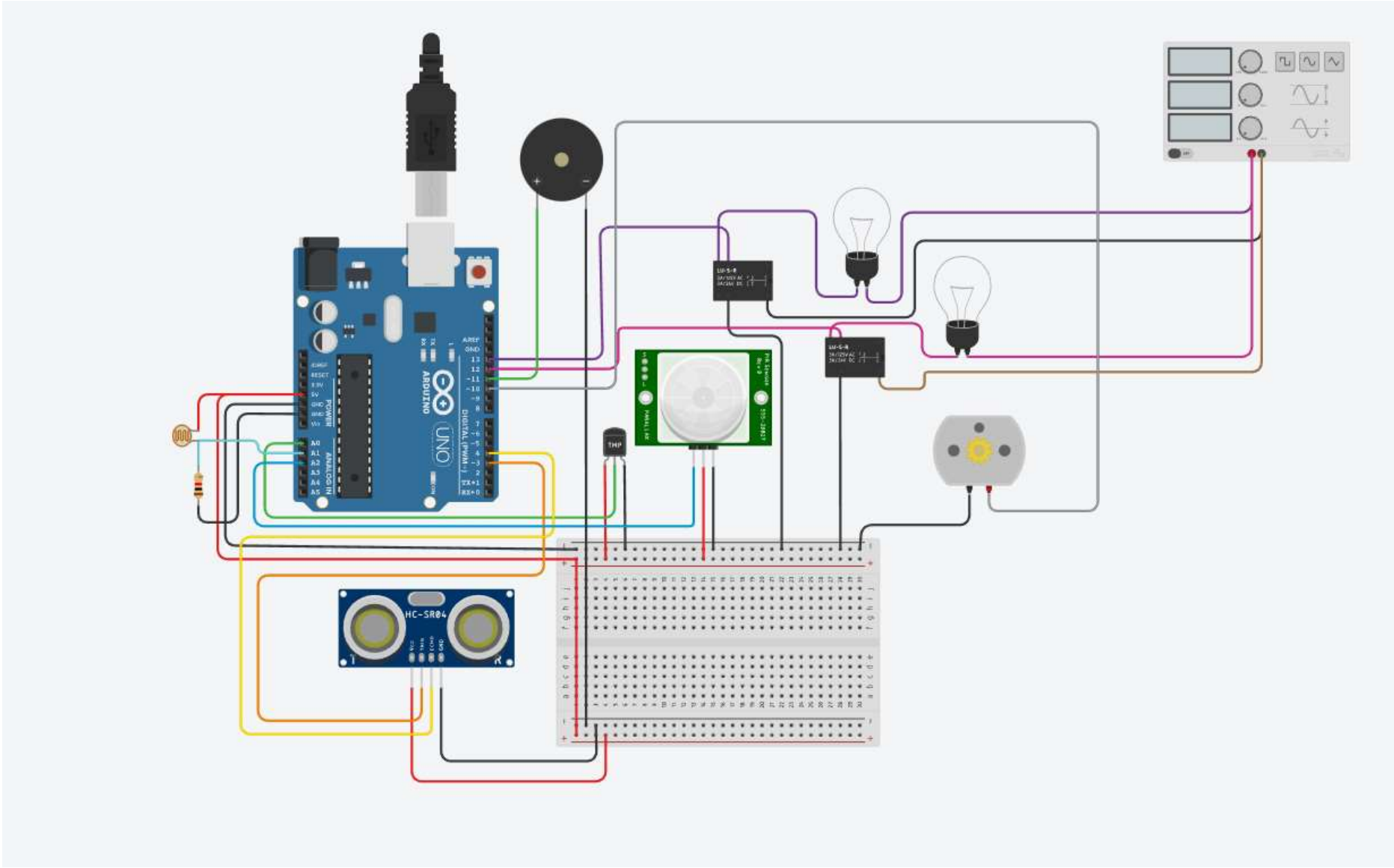
ARDUINO
UNO
HC-SR04
TMP

Tinker cad Link:

https://www.tinkercad.com/things/3ezgucINTCI-ingenious-bombul/editel?tenant=circuits

Arduino Code

```
const int rl1 = 13, rl2 = 12, buzz = 11,motor = 10, trig = 3, echo = 4;
const int ldr = A1, pir = A2, tmp = A0;
void setup()
{
  Serial.begin(9600);
  pinMode(motor, OUTPUT);
  pinMode(rl1,OUTPUT);
  pinMode(rl2,OUTPUT);
  pinMode(buzz,OUTPUT);
  pinMode(trig,OUTPUT);
  pinMode(echo,INPUT);
  pinMode(ldr,INPUT);
  pinMode(pir,INPUT);
  pinMode(tmp,INPUT);
}
void loop()
{
```

```
float temperature = analogRead(tmp);
 temperature = map(temperature,20,258,0,100);
float light = analogRead(ldr);
light = map(light,6,679,0,255);
float motion = analogRead(pir);
long duration;
int distance;
digitalWrite(trig, LOW);
delayMicroseconds(2);
digitalWrite(trig, HIGH);
delayMicroseconds(10);
digitalWrite(trig, LOW);
duration = pulseIn(echo, HIGH);
distance = duration * 0.034 / 2;
 if(distance <14)
{
  digitalWrite(buzz,HIGH);
}
 else
 {
```

```
  digitalWrite(buzz,LOW);
 }

  if(motion)
{
  digitalWrite(rl1,HIGH);
}
 else
 {
  digitalWrite(rl1,LOW);
 }

 if(light <128)
{
  digitalWrite(rl2,HIGH);
}
 else
 {
  digitalWrite(rl2,LOW);
 }
```

```
 if(temperature >30)
{
  digitalWrite(motor,HIGH);
}
 else
 {
   digitalWrite(motor,LOW);
 }
}
```