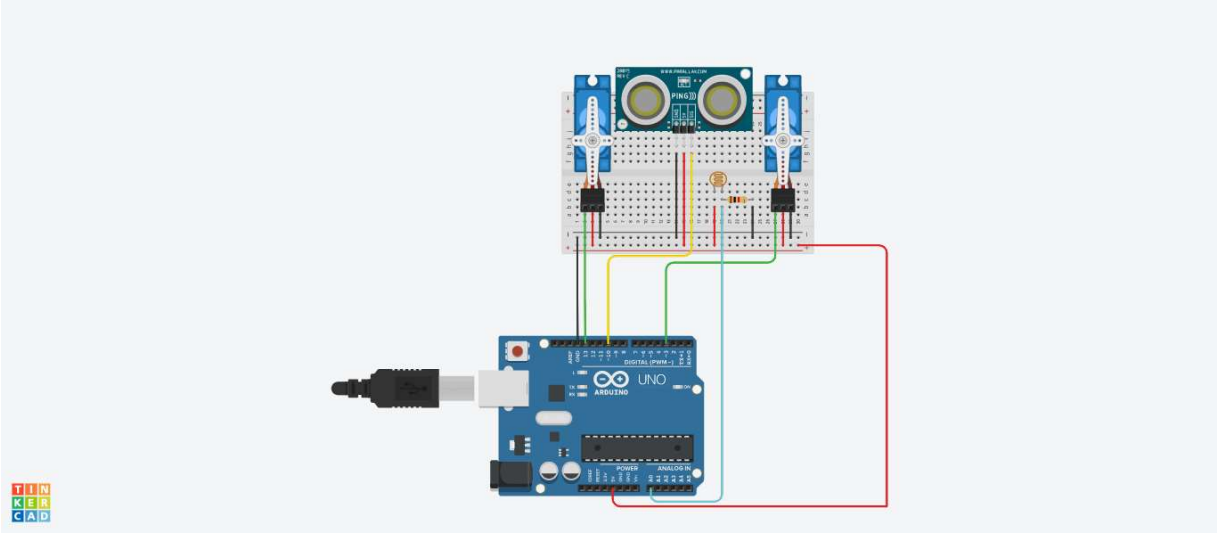


```
#include <Servo.h>
int valuephoto = 0;
int valuesensor = 0;
long readUltrasonicDistance(int triggerPin, int echoPin)
{
  pinMode(triggerPin, OUTPUT);  // Clear the trigger
  digitalWrite(triggerPin, LOW);
  delayMicroseconds(2);
  // Sets the trigger pin to HIGH state for 10 microseconds
  digitalWrite(triggerPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(triggerPin, LOW);
  pinMode(echoPin, INPUT);
  // Reads the echo pin, and returns the sound wave travel time in microseconds
  return pulseIn(echoPin, HIGH);
}
```

```
Servo servo_13;
Servo servo_3;
void setup()
{
  pinMode(A0, INPUT);
  servo_13.attach(13, 500, 2500);
  servo_3.attach(3, 500, 2500);
}
void loop()
{
  valuesensor = 0.01723 * readUltrasonicDistance(10, 10);
  valuephoto = analogRead(A0);
  if (valuesensor <= 150) {
    servo_13.write(90);
  } else {
    servo_13.write(0);
  }
  if (valuephoto >= 500) {
    servo_3.write(90);
  } else {
    servo_3.write(0);
  }
  delay(10); // Delay a little bit to improve simulation performance
}
```