

```

#include <mathstronauts_arduino_library.h>
int red_led = 2;
int yellow_led = 3;
int green_led = 4;
int trig = 8;
int echo = 9;
void setup() {
    // put your setup code here, to run once:
    pinMode(red_led, OUTPUT);
    pinMode(yellow_led, OUTPUT);
    pinMode(green_led, OUTPUT);
    pinMode(trig, OUTPUT);
    pinMode(echo, INPUT);
}

void loop() {
    //1. Read distance from ultrasonic
    float distance = ultrasonicDistance(trig, echo);

    //2. Check if distance is less than x
    if(distance<8){
        //Turn on LED
        digitalWrite(red_led,HIGH);
    }
    else{
        // Turn off LED
        digitalWrite(red_led,LOW);
    }
    delay(100);
}

```