

```
#include <mathstronauts_arduino_library.h>
int motor =13;
int trig =8;
int echo =9;
void setup() {
    // put your setup code here, to run once:
    pinMode(motor, 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 < 30){
        //Turn on motor
        digitalWrite(motor,HIGH);
    }
    else{
        // Turn off motor
        digitalWrite(motor,LOW);
    }
    delay(100);
}
```