```
#include <Servo.h>
int dist = 0;
long USDsens(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);
}
Servo servo_8;
void setup()
{
servo_8.attach(8, 500, 2500);
pinMode(2, INPUT);
pinMode(12, OUTPUT);
pinMode(A0, INPUT);
pinMode(9, OUTPUT);
}
void loop()
{
```

```
dist = 0.01723 * USDsens(7, 7);
if (dist <= 100) {
 servo_8.write(90);
  delay(1000);
 } else {
  servo_8.write(0);
  delay(1000);
 }
if (digitalRead(2) == 1) {
  digitalWrite(12, HIGH);
  delay(1000);
 } else {
  digitalWrite(12, LOW);
  delay(1000);
 }
 if (analogRead(A0) > 200) {
  digitalWrite(9, HIGH);
  delay(1000);
 } else {
  digitalWrite(9, LOW);
  delay(1000);
 }
}
```

