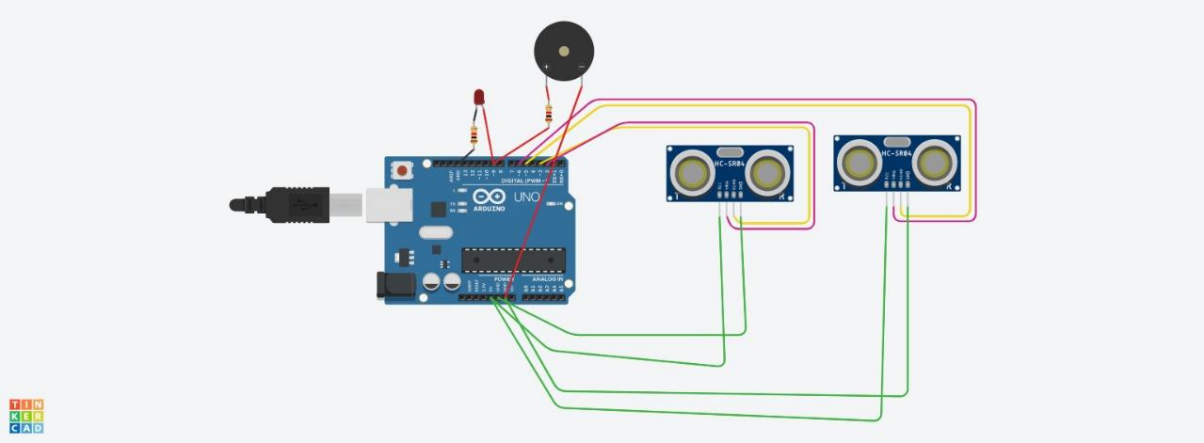

```
#include <Servo.h>

int pos = 0;

Servo servo1;
int a1=2;
int b1 = 3;
int a2 = 6;
int b2 = 5;



void setup() {
Serial.begin (9600);
pinMode(a1, OUTPUT);
pinMode(b1, INPUT);
pinMode(a2, OUTPUT);
pinMode(b2, INPUT);
pinMode(9, OUTPUT);
servo1.attach(9);

}
```

```
void loop(){
  ultra();
int duration, distance;
digitalWrite (a, HIGH);
 delayMicroseconds (1);
digitalWrite (a, LOW);
duration = pulseIn(b, HIGH);
distance = (duration/2)/29.1;

Serial.print(distance);
Serial.print("cm");
Serial.println();

if(distance > 100) {
digitalWrite (9, HIGH);
}
else {
digitalWrite (9, LOW);
}

int duration2, distance2;
digitalWrite (a2, HIGH);
 delayMicroseconds (1);
digitalWrite (a2, LOW);
duration = pulseIn(b2, HIGH);
distance2 = (duration/2)/29.1;

Serial.print(distance2);
Serial.print("cm");
Serial.println();
```

```
if(distance > 100) {
digitalWrite (9, HIGH);
}
else {
digitalWrite (9, LOW);
}
}
void ultra(){


for (pos = 0; pos <= 90; pos += 1) {

   servo1.write(pos);

   delay(15);
 }

 delay (1000);

 for (pos = 90; pos >= 0; pos -= 1) {

   servo1.write(pos);

   delay(15);
}
delay (800);
}
```