

Arduino IDE Kodu

Radar Projesi - Donanım Kontrol Yazılımı (C++)

```
#include <Servo.h>

const int TRIG_PIN = 10;
const int ECHO_PIN = 11;
const int SERVO_PIN = 9;

Servo radarServo;
int aci = 0;
int mesafe = 0;

int mesafeOlc() {
    digitalWrite(TRIG_PIN, LOW);
    delayMicroseconds(2);
    digitalWrite(TRIG_PIN, HIGH);
    delayMicroseconds(10);
    digitalWrite(TRIG_PIN, LOW);
    long sure = pulseIn(ECHO_PIN, HIGH);
    int cm = sure * 0.034 / 2;
    return cm;
}

void setup() {
    Serial.begin(9600);
    pinMode(TRIG_PIN, OUTPUT);
    pinMode(ECHO_PIN, INPUT);
    radarServo.attach(SERVO_PIN);
}

void loop() {
    for (aci = 0; aci <= 180; aci += 2) {
        radarServo.write(aci);
        delay(30);
        mesafe = mesafeOlc();
        Serial.print(aci); Serial.print(','); Serial.print(mesafe);
        Serial.print('.');
    }
    for (aci = 180; aci >= 0; aci -= 2) {
        radarServo.write(aci);
        delay(30);
        mesafe = mesafeOlc();
        Serial.print(aci); Serial.print(','); Serial.print(mesafe);
        Serial.print('.');
    }
}
```

