#include<Servo.h>

Servo servo;

#define trigpin 11

#define echopin 10

float distance;

float duration;

void setup() {

servo.attach(9);

Serial.begin(9600);

pinMode(trigpin,OUTPUT);

pinMode(echopin,INPUT);

servo.write(0);

delay(20);

}

void loop() {

digitalWrite(trigpin,HIGH);

delay(10);

digitalWrite(trigpin,LOW);

duration=pulseIn(echopin,HIGH);

distance=(duration/2)\*0.034;

Serial.println(distance);

if(distance<=20){

servo.write(180);

}

if(distance>20&&distance<100){

delay(3000);

servo.write(0);

}

}