#include<Servo.h>

Servo myservo;

const int trigPin=3;

const int echoPin=5;

long tmeduration;

int distance;

void setup() {

myservo.attach(9);

pinMode(trigPin,OUTPUT);

pinMode(echoPin,INPUT);

Serial.begin(9600);

}

void loop() {

digitalWrite(trigPin,LOW);

delayMicroseconds(2);

digitalWrite(trigPin,HIGH);

delayMicroseconds(10);

digitalWrite(trigPin,LOW);

tmeduration=pulseIn(echoPin,HIGH);

distance=(0.034\*tmeduration)/2;

if(distance<=20){

myservo.write(90);

}

else{

myservo.write(0);}

Serial.print("distance:");

Serial.println(distance);

delay(1);

}