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Date	2020-03-12
Words	238
Characters	1654

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#include <Servo.h>. // Defines Trigger and Echo pins of Ultrasonic_Sensor const int trig = 10; const int echo = 11; // Variables used for the duration and the distance measurement long dur; int dis; Servo Servo1; // Create the servo object to control servo motor void setup() { pinMode(trig, OUTPUT); // Sets the trig as an Output pinMode(echo, INPUT); // Sets the echo as an Input Serial.begin(9600); Servo1.attach(12); // The servo motor is attached to pin 12 } void loop() { // rotates the servo motor from 15 to 165 degrees for(int i=15;i<=165;i++){ Servo1.write(i); delay(30); dis = calculatedis();// Function call for calculating the measured distance by the Ultrasonic_sensor Serial.print(i); // Sends the measured current degree into the Serial Port Serial.print(","); // Sends additional character next to the degree value for Processing IDE to identify degree value Serial.print(dis); // Sends the dis value into the Serial Port Serial.print("."); // Sends additional character next to distance value for Processing IDE to identify degree value } // Repeats the previous for loop from 165 to 15 degrees for(int i=165;i>15;i--){ Servo1.write(i); delay(30); dis = calculatedis(); Serial.print(i); Serial.print(","); Serial.print(dis); Serial.print("."); } } // Function used for distance measurement by the Ultrasonic_sensor int calculatedis(){ digitalWrite(trig, LOW); delayMicroseconds(2); // Sets the trig on HIGH state for 10 micro seconds digitalWrite(trig, HIGH); delayMicroseconds(10); digitalWrite(trig, LOW); dur = pulseIn(echo, HIGH); // Reads the echo, returns the sound wave travel time in microseconds dis= dur*0.034/2; return dis; }

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