#include<Servo.h>

int trigpin=2;

int echopin=3;

Servo myservo;

void setup()

{

pinMode(trigpin,OUTPUT);

pinMode(echopin,INPUT);

Serial.begin(9600);

myservo.attach(4);

}

void loop()

{

digitalWrite(trigpin,HIGH);

delay(1000);

digitalWrite(trigpin,LOW);

int duration=pulseIn(echopin,HIGH);

int distance=(duration\*0.034)/2;

Serial.println("the distance is");

Serial.println(distance);

if(distance>100)

{

myservo.write(0);

Serial.println("servo is at an angle 0");

delay(1000);

myservo.write(90);

Serial.println("servo is at an angle 90");

delay(1000);

myservo.write(180);

Serial.println("servo is at an angle 180");

delay(1000);

myservo.write(270);

Serial.println("servo is at an angle 270");

delay(1000);

myservo.write(360);

Serial.println("servo is at an angle 360");

delay(1000);

}

delay(1000);

}

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myservo.write(0);

Serial.println("servo is at an angle 0");

delay(1000);

myservo.write(90);

Serial.println("servo is at an angle 90");

delay(1000);

myservo.write(0);

Serial.println("servo is at an angle 0");

delay(1000);

}

delay(1000);

}

