#include <NewPing.h>

#define TRIGGER\_PIN 2 // Arduino pin tied to trigger pin on the ultrasonic sensor.

#define ECHO\_PIN 3 // Arduino pin tied to echo pin on the ultrasonic sensor.

#define MAX\_DISTANCE 50 // Maximum distance we want to ping for (in centimeters). Maximum sensor distance is rated at 400-500cm.

#define TRIGGER\_PIN2 4 // Arduino pin tied to trigger pin on the ultrasonic sensor.

#define ECHO\_PIN2 5 // Arduino pin tied to echo pin on the ultrasonic sensor.

#define MAX\_DISTANCE2 50 // Maximum distance we want to ping for (in centimeters). Maximum sensor distance is rated at 400-500cm.

#define TRIGGER\_PIN3 6 // Arduino pin tied to trigger pin on the ultrasonic sensor.

#define ECHO\_PIN3 7 // Arduino pin tied to echo pin on the ultrasonic sensor.

#define MAX\_DISTANCE3 50 // Maximum distance we want to ping for (in centimeters). Maximum sensor distance is rated at 400-500cm.

NewPing sonar(TRIGGER\_PIN, ECHO\_PIN, MAX\_DISTANCE); // NewPing setup of pins and maximum distance.

NewPing sonar2(TRIGGER\_PIN2, ECHO\_PIN2, MAX\_DISTANCE2); // NewPing setup of pins and maximum distance.

NewPing sonar3(TRIGGER\_PIN3, ECHO\_PIN3, MAX\_DISTANCE3); // NewPing setup of pins and maximum distance.

void setup() {

int m=8;

int m2=9;

int m3=10;

int B=11;

pinMode(11,OUTPUT);

pinMode(8,OUTPUT);

pinMode(9,OUTPUT);

pinMode(10,OUTPUT);

digitalWrite(8,LOW);

digitalWrite(9,LOW);

digitalWrite(10,LOW);

Serial.begin(9600); // Open serial monitor at 115200 baud to see ping results.

}

void loop() {

delay(500); // Wait 50ms between pings (about 20 pings/sec). 29ms should be the shortest delay between pings.

unsigned int uS = sonar.ping(); // Send ping, get ping time in microseconds (uS).

unsigned int uS2 = sonar2.ping(); // Send ping, get ping time in microseconds (uS).

unsigned int uS3 = sonar3.ping(); // Send ping, get ping time in microseconds (uS).

if(uS/US\_ROUNDTRIP\_CM!=0)

{

digitalWrite(8,HIGH);

digitalWrite(11,HIGH);

Serial.print("Ping: ");

Serial.print(uS / US\_ROUNDTRIP\_CM); // Convert ping time to distance in cm and print result (0 = outside set distance range)

Serial.println("cm");

}

else

{

digitalWrite(8,LOW);

}

if(uS2/US\_ROUNDTRIP\_CM!=0)

{

digitalWrite(9,HIGH );

digitalWrite(11,HIGH);

Serial.print("Ping2: ");

Serial.print(uS2 / US\_ROUNDTRIP\_CM); // Convert ping time to distance in cm and print result (0 = outside set distance range)

Serial.println("cm");

}

else

{

digitalWrite(9,LOW);

}

if(uS3/US\_ROUNDTRIP\_CM!=0)

{

digitalWrite(10,HIGH);

digitalWrite(11,HIGH);

Serial.print("Ping: ");

Serial.print(uS3 / US\_ROUNDTRIP\_CM); // Convert ping time to distance in cm and print result (0 = outside set distance range)

Serial.println("cm");

}

else

{

digitalWrite(10,LOW);

}

}