#include <NewPing.h>  
#define TRIGGER\_PIN  12  // Arduino pin tied to trigger pin on the ultrasonic sensor.  
#define ECHO\_PIN     11  // Arduino pin tied to echo pin on the ultrasonic sensor.  
#define MAX\_DISTANCE 200 // 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.  
  
void setup() {  
  Serial.begin(115200); // Open serial monitor at 115200 baud to see ping results.  
}  
  
void loop() {  
  delay(50);                      // 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).  
  Serial.print("Ping: ");  
  Serial.print(sonar.convert\_cm(uS)); // Convert ping time to distance and print result (0 = outside set distance range, no ping echo)  
  Serial.println("cm");  
}