Ultrasonic code for arduino board

```
#define TRIG_PIN 9  // Define the digital output pin for the ultrasonic sensor's trigger
#define ECHO_PIN 10 // Define the digital input pin for the ultrasonic sensor's echo

void setup() {
  Serial.begin(9600);
  pinMode(TRIG_PIN, OUTPUT);
  pinMode(ECHO_PIN, INPUT);
}

void loop() {
  // Send a pulse to the ultrasonic sensor to trigger a measurement
  digitalWrite(TRIG_PIN, LOW);
  delayMicroseconds(2);
  digitalWrite(TRIG_PIN, HIGH);
  delayMicroseconds(10);
  digitalWrite(TRIG_PIN, LOW);

  // Read the duration of the echo signal (in microseconds)
  long duration = pulseIn(ECHO_PIN, HIGH);

  // Calculate the distance in centimeters using the speed of sound (343 m/s)
  // and the formula: Distance = (Duration * Speed of Sound) / 2
  float distance_cm = (duration * 0.0343) / 2;

  // Print the measured distance to the serial monitor
  Serial.print("Distance: ");
  Serial.print(distance_cm);
  Serial.println(" cm");

  delay(1000); // Wait for a second before taking the next measurement
}
```