```
#define TRIG_PIN 10 // Trigger pin
connected to Arduino pin 9
#define ECHO_PIN 11 // Echo pin
connected to Arduino pin 10
long duration;
int distance;
void setup() {
 pinMode(TRIG_PIN, OUTPUT);
 pinMode(ECHO_PIN, INPUT);
 Serial.begin(9600); // Start serial
communication
void loop() {
 // Clear the trigger pin
 digitalWrite(TRIG_PIN, LOW);
 delayMicroseconds(2);
 // Send a 10 microsecond pulse to trigger
```

```
digitalWrite(TRIG_PIN, HIGH);
 delayMicroseconds(10);
 digitalWrite(TRIG_PIN, LOW);
 // Read the echo pin (time in
microseconds)
 duration = pulseIn(ECHO_PIN, HIGH);
 // Calculate distance (speed of sound =
343 m/s)
 distance = duration * 0.034 / 2; // in cm
 // Print result
 Serial.print("Distance: ");
 Serial.print(distance);
 Serial.println(" cm");
 delay(200); // half a second delay before
next reading
```