**ULTRASONIC SENSOR CODE**

int trigPin = 11; // Trigger

int echoPin = 12; // Echo

long duration, cm, inches;

void setup()

//Serial Port begin

Serial.begin (9600);

//De\_ne inputs and outputs

pinMode(trigPin, OUTPUT);

pinMode(echoPin, INPUT);

void loop()

digitalWrite(trigPin, LOW);

delayMicroseconds(5);

digitalWrite(trigPin, HIGH);

delayMicroseconds(10);

digitalWrite(trigPin, LOW);

pinMode(echoPin, INPUT);

duration = pulseIn(echoPin, HIGH);

cm = (duration/2) / 29.1;

inches = (duration/2) / 74;

Serial.print(inches);

Serial.print("in, ");

Serial.print(cm);

Serial.print("cm");

Serial.println();

delay(250);