**//Code for designing a distance measuring device**

const int trigPin = 10;*//declare pin numbers*

const int echoPin = 11;

long duration;*//declare variables*

float distance;

void setup()

{

pinMode(10,OUTPUT);*//sets the trigger pin as OUTPUT*

pinMode(11,INPUT);*//sets the echo pin as INPUT*

Serial.begin(9600);*//starts the serial communication*

}

void loop()

{

*//clears the trigger pin*

digitalWrite(10,LOW);

delayMicroseconds(2);*//wait for 2 microseconds*

*//sets the trigger pin on HIGH state for 10 microseconds*

digitalWrite(10,HIGH);

delayMicroseconds(10);

digitalWrite(10,LOW);

duration = pulseIn(11,HIGH);*//reads the echoPin, returns the sound wave travel time in microseconds*

//calculating the distance

distance = 0.017;

*//prints the distance on serial monitor*

Serial.print("Distance: ");

Serial.println(distance);

}