**Servo motor**

#include <Servo.h>

int sensorPin1 = A0;

Servo myservo1;

float angle1 = 0;

float volume1 = 0;

int sensorPin2 = A1;

Servo myservo2;

float angle2 = 0;

float volume2 = 0;

void setup() {

myservo1.attach(10);

myservo2.attach(9);

Serial.begin(9600);

}

void loop() {

volume1 = analogRead(sensorPin1);

volume1 = mapfloat(volume1,0,1023,0.001,0.01);

float n = (float) sin(angle1);

float val1 = n \* 90.0 + 90.0;

myservo1.write(val1);

volume2 = analogRead(sensorPin2);

volume2 = mapfloat(volume2,0,1023,0.001,0.01);

float m = (float) sin(angle2);

float val2 = m \* 90.0 + 90.0;

myservo2.write(val2);

delay(50);

angle1 += volume1 \* 5;

angle2 += volume2 \* 5;

}

float mapfloat(float x, float in\_min, float in\_max, float out\_min, float out\_max){

return (x - in\_min) \* (out\_max - out\_min) / (in\_max - in\_min) + out\_min;

}

