RC Filter \rightarrow How much voltage can be passed?

Is there any attenuation?

PWM signal with 7.32 Hz

Voice = VIA ($\frac{R_2}{21 + 2}$)

Vait = $\frac{1}{2\pi fc}$

$$Vad - 1H2 = VIN \times \frac{9K \times 10 \times 10^{6}}{N(0 \times)^{2} + \frac{1}{4R^{2} \times 10^{10}}}$$

$$= VIN \times \frac{1}{2K \times 10^{-5}} = 0$$

$$0.8467 VIN$$

$$2E IH2$$

at a1H3 0,001 Hz

$$\frac{\sqrt{10^8 + \frac{1}{4\pi^2 f_x^2 |\tilde{o}|^0}}}{\sqrt{10^8 + \frac{1}{4\pi^2 f_x^2 |\tilde{o}|^0}}} = 1$$

$$8 = R_1 + \frac{1}{2\pi f C_2}$$

$$P = 1^2 8 = \frac{V^2}{2} = \frac{Vm^2}{R_1 + \frac{1}{2\pi f C_2}} \sqrt{R} + \frac{1}{2\pi f C_2} \sqrt{R}$$

Small R > good filtering at high withing freq Small C > good passing at small freq V Pick big R & small C > good at small freq.

add more stages Small coment -> small losses

```
finclude <LiquidCrystal I2C.h>
                                                                            //Download it here: https://www.electronoobs.com/eng_arduino_lig_crystal.php
                 finclude <Adafruit ADS1015.h>
                                                                        //Download here: https://www.electronoobs.com/eng_arduino_Adafruit_ADS1015.php
                Adafruit ADS1115 ads(0x48);
                                                                             //Define i2c address
                 // Sometimes the address is 0x27 or 0x3f (try both)
                LiquidCrystal_I2C lcd(0x27, 16, 2); //Address, columns, rows
                const float multiplier = 0.0001875; //In order to pass from 16bits to real value voltage
                                                                             //Pin for a buzzer (not yet used)
                 float offset = 0.004;
                                                                             //Constant offset (in A) that the read has (yours might be different)
                 void setup() {
                    Serial.begin(9600);
                    pinMode (Buzzer, OUTPUT);
                    digitalWrite (Buzzer, LOW);
                    ads.begin();
                    delay(10);
                    lcd.init();
                    lcd.backlight();
                    lcd.clear();
                    lcd.setCursor(0,0);
lcd.print(" ELECTRONOOBS ");
                    analogWrite(Buzzer, 200);
                    delay(100);
                                                                                                                                                                                                        Gain (10)
                    analogWrite(Buzzer,LOW);
                    delay(300);
                                                                                                                                                                                                        5 " 1.25V
                    lcd.setCursor(0,1);
                    lcd.print(" CONSTANT LOAD ");
                                                                            For AA Stages

Stay at 0.

**The stage of the stage of th
                    delay(1500);
                 void loop() (
                   float set_val, real_val;
real_val = ads.readADC_Differential_0_1();
                    set_val = ads.readADC_SingleEnded(2);
                    set_val = (set_val * multiplier) - offset;
                    real_val = real_val * multiplier - offset;
                     //If we have negative value, we stay at 0.
                    if(real_val < 0)
                     [ real_val = 0;
                     if{set_val < 0}
                    [ set_val = 0;
                    //Print data on LCD
                    //lcd.clear();
                    lcd.setCursor(0,0);
                    lcd.print("Set:
                    lcd.print(set val.3);
                    lcd.print(" A");
                    lcd.setCursor(0,1);
                    lcd.print("Current: ");
                    lcd.print(real val,3);
                    lcd.print(" A");
                                                                                              30.3×0.5= 15.15mV
                    delay(100);
          Gain > 20 -> 606 mV N 20~30 gain -> 40~60.
303 mV
                                                                                                                                            -> 1A per branch.
                                                                                                                But for high Coment.
             Gain 7 60 7 1.818V V
                                                                                                                                                                      oby -> max inspire V = 100
```

finclude <Wire.h>