




Mapping Analog Voltage into PWM

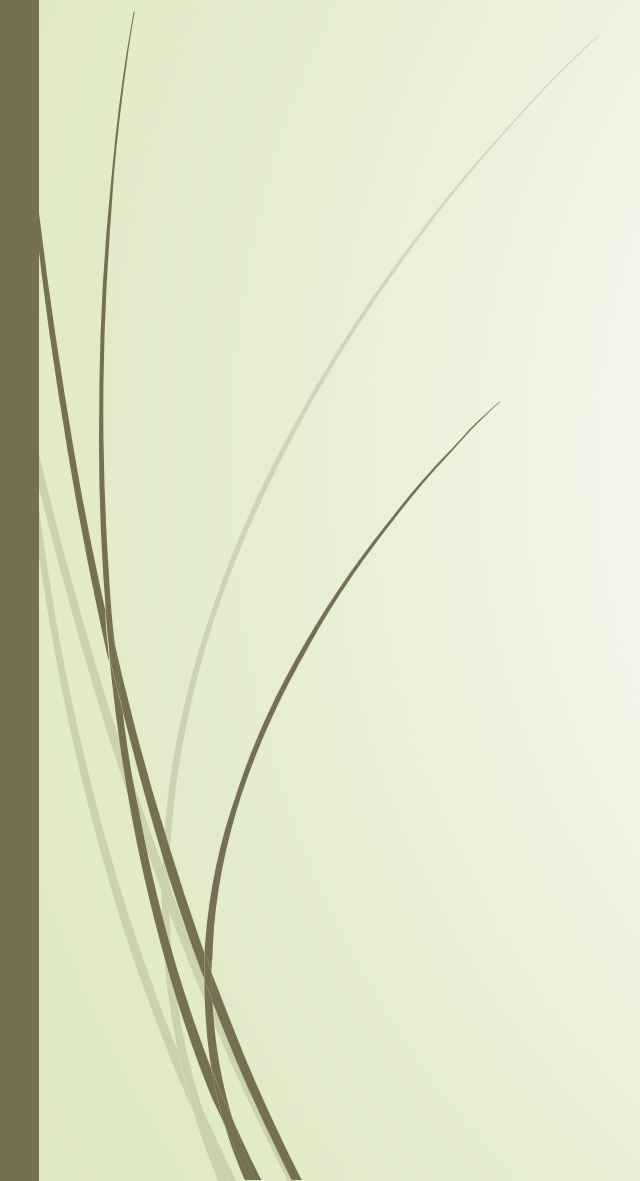
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```
Serial.print("Analog Voltage PWM: ");
  Serial.println(analogvoltagepwm) ;
  analogWrite(aVout, analogvoltagepwm);
  int analogvoltagegereal =
map(analogvoltagepwm, 0, 255, 0, 5.0);
  Serial.print("Analog Voltage Output: ");
  Serial.println(analogvoltagegereal) ;
```



```
#include <SPI.h>
#include <Wire.h>
#include <Adafruit_GFX.h>
#include <Adafruit_SSD1306.h>
#define SCREEN_WIDTH 128
#define SCREEN_HEIGHT 64
#define OLED_RESET -1 // Reset pin
#define SCREEN_ADDRESS 0x3C
Adafruit_SSD1306 display(SCREEN_WIDTH, SCREEN_HEIGHT, &Wire,
OLED_RESET);

int thermistorPin = A0;
int Vo;

void setup() {
  Serial.begin(9600);
  if(!display.begin(SSD1306_SWITCHCAPVCC, SCREEN_ADDRESS)) {
    Serial.println(F("SSD1306 allocation failed"));
    for(;;) {}
  }
  display.clearDisplay();
  display.setTextSize(2);
  display.setTextColor(WHITE);
  display.setCursor(0,0);
  display.println("Temperature Reading");
  display.display();
  delay(2000);
}

void loop() {

  Vo = analogRead(thermistorPin);

  Serial.print("Analog Voltage: ");
  Serial.println(Vo);
  int VoPWM = map(Vo, 0, 5000, 0, 225);
  Serial.print("Analog Voltage PWM: ");
  Serial.println(VoPWM);

  display.clearDisplay();
  display.setTextSize(2);
  display.setTextColor(WHITE);
  display.setCursor(0,0);
  display.print("Vo :");
  display.println(Vo);
  display.println("AnalogPWM");
  display.print(VoPWM);
  display.display();
  delay(3000);
}
```