

```
1  #include "stm32f10x.h"
2  volatile int i=0;
3  int main(){
4      //PortA_2 analog giris, PortA_10 led cikis
5      RCC->APB2ENR |= (1<<2) | (1<<9) | (1<<11); //PortA, ADC ve TIM1
6      //PortA_2 Potansiyometre
7      GPIOA->CRL &= ~(1<<10);
8      //PortA_10 LED
9      GPIOA->CRH |= (0xf<<8);
10     GPIOA->CRH &= ~(1<<10);
11     //Timer Ayarlari
12     TIM1->CCMR2 |= (6<<4);
13     TIM1->CCER |= (1<<8);
14     TIM1->BDTR |= (1<<15);
15     TIM1->ARR = 4095;
16     TIM1->PSC = 0;
17     TIM1->CCR3 = 0;
18     TIM1->CR1 |= 1;
19     // ADC Ayarlari
20     RCC->CFGR |= (1<<15); //ADCPRE 6
21     ADC1->SMPR2 |= (0x7); //1,5 cycle
22     ADC1->SQR1 &= ~(0xf<<20); //1 giris olacagini belirttik
23     ADC1->SQR3 |= 2; //Hangi pinden giris olacagini belirttik
24     ADC1->CR2 |= 1; //Adc on
25     ADC1->CR2 |= (1<<20);
26     ADC1->CR2 |= (0x7<<17);
27     ADC1->CR2 |= (1<<2); //Kalibrasyon
28     while(ADC1->CR2 & (1<<2)){ }
29     while(1){
30         ADC1->CR2 |= (1<<22); //basla
31         while(!(ADC1->SR & (1<<1))){ } //bitmesini bekle
32         TIM1->CCR3 = ADC1->DR & 0xffff; // degeri pwm olarak ayarla
33         for(i=0;i<500000;i++) { } //saniyede 10 kontrol için biraz bekle
34     }
35 }
36
37
```