C:\Users\admin\Desktop\KeilProjelerim\Ders6\odev4.c

```
#include "stm32f10x.h"
 3
     static int duty deger = 0;
 4
    static int kontrol = 1;
     int main(){
                                        // PortA Enable
 7
    RCC \rightarrowAPB2ENR |= (1<<2);
      GPIOA ->CRH &= \simeq (1<<6);
GPIOA ->CRH |= (1<<7) | (3<<4);
 8
                                         // Porta nin 9. pini çikis
9
10
11
      RCC ->APB2ENR |= (1 << 11);
                                         // TIM1 Enable
                                         // Chanel-2
      TIM1 -> CCMR1 |= (6 << 12);
12
13
       TIM1 ->ARR = 36000;
                                         // 2KHz
       TIM1->PSC = 0;
14
      TIM1 ->CCR2 = duty_deger;
15
16
      TIM1 ->CCER |= (1 << 4);
                                         // Chanel-2 Enable
17
      TIM1 -> BDTR |= (1 << 15);
18
19
       SysTick \rightarrow LOAD = 720000/8;
                                         //10ms
       SysTick ->CTRL = 3;
20
                                         //SysTick ve Tickint Enable
       TIM1 ->CR1 |= 1;
                                         //TIM1 basla
21
22
23
      while(1){ }
24
25
26
27
    void SysTick Handler() {
28
29
       if(kontrol){
30
       duty deger += 360;
       if (duty_deger >= 36000) { kontrol = 0; }
31
32
33
34
       else{
35
       duty_deger -= 360;
36
       if(duty_deger <=0 ) { kontrol = 1; }</pre>
37
38
39
       TIM1 ->CCR2 = duty_deger;
40
     }
41
```