

```
1  #include "stm32f10x.h"
2
3  static int say1,say2 =0;
4  volatile int i,j=0;
5
6  int main(){
7
8      RCC->APB2ENR |= (1<<2);
9      GPIOA->CRL &= ~(1<<2);
10     GPIOA->CRL |= (1<<1); //A0 led1 trafik kirmizi
11     GPIOA->CRL &= ~(1<<6);
12     GPIOA->CRL |= (1<<5); //A1 led2 trafik sari
13     GPIOA->CRL &= ~(1<<10);
14     GPIOA->CRL |= (1<<9); //A2 led3 trafik yesil
15     GPIOA->CRL &= ~(1<<14);
16     GPIOA->CRL |= (1<<13); //A3 led4 yaya yesil
17     GPIOA->CRL &= ~(1<<18);
18     GPIOA->CRL |= (1<<17); //A4 led5 yaya kirmizi
19     GPIOA->CRL &= ~(1<<22);
20     GPIOA->CRL |= (1<<23); //A5 buton
21
22     GPIOA->ODR |= (1<<2); //trafik yesil
23     GPIOA->ODR |= (1<<4); //yaya kirmizi
24     while(1){
25         if(GPIOA->IDR & (1<<5)){
26             SysTick ->LOAD = 9000000; //1 saniye
27             SysTick ->CTRL = 3; //systick aktif
28         }
29         if(say1 == 10 & say2 == 10){
30             GPIOA->ODR &= ~(1<<2); //trafik yesil sondur
31             GPIOA->ODR |= (1<<1); //trafik sari yak
32             for(i=0;i<5000000;i++) { } //sari isikta biraz bekle
33             GPIOA->ODR &= ~(1<<1); //trafik sari sondur
34             GPIOA->ODR |= 1; //trafik kirmizi yak
35             GPIOA->ODR &= ~(1<<4); //yaya kirmizi sondur
36             GPIOA->ODR |= (1<<3); //yaya yesil yak
37             say1 =0;
38         }
39         if(say2 == 30){
40             GPIOA->ODR &= ~1; //trafik kirmizi sondur
41             GPIOA->ODR |= (1<<1); //trafik sari yak
42             for(j=0;j<5000000;j++) { }
43             GPIOA->ODR &= ~(1<<1); //trafik sari sondur
44             GPIOA->ODR |= (1<<2); //trafik yesil yak
45             GPIOA->ODR &= ~(1<<3); //yaya yesil sondur
46             GPIOA->ODR |= (1<<4); //yaya kirmizi yak
47             say1=0;
48             say2=0;
49             SysTick ->CTRL = 0; //systick kapali
50         }
51     }
52 }
53
54 void SysTick_Handler(){
55     say1++;
56     say2++;
57 }
```