

LAMPIRAN

LISTING PROGRAM SIMULATOR TRAFFIC LIGHT

```
PortA          equ          300h
Reg_ctrl       equ          303h
Lambat         equ          79fh
Cepat          equ          19f
Bag_program    segment
    Assume     cs:bag_program
Org 100h
Mulai :        Mov          dx, reg_ctrl
               Mov          al, 10000000b
               Out          dx, al
               Call         tahap1
               Jmp          mulai

Tahap1 proc near
               Mov          dx, PortA
               Mov          al, 00100001b
               Out          dx, al
               Call         delay
               Mov          al, 00110001b
               Out          dx, al
               Call         delay1
               Mov          al, 00001100b
               Out          dx, al
               Call         delay
               Mov          al, 00001110b
               Out          dx, al
               Call         delay1
               Ret
```

Tahap1 endp

Delay proc near

```
                Mov     bx, lambat
Loop2 :         xor     cx, cx
Loop1 :         loop   loop1
                Dec     bx
                Jnz    loop2
                Ret
```

Delay endp

Delay1 proc near

```
                Mov     bx, cepat
Loop12 :        xor     cx, cx
Loop11 :        loop   loop11
                Dec     bx
                Jnz    loop12
                Ret
```

Delay1 endp

Bag_program ends

End mulai