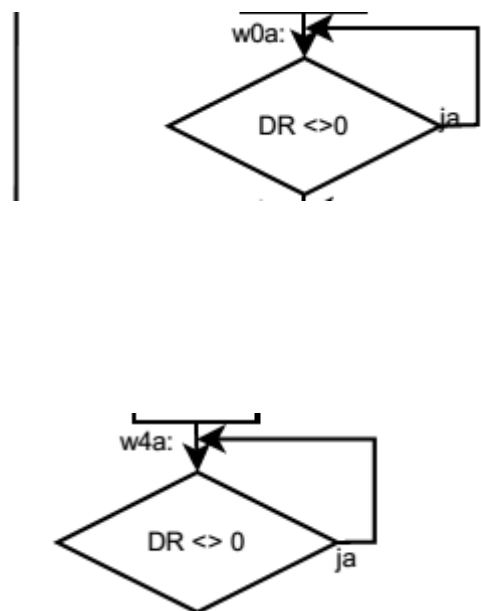
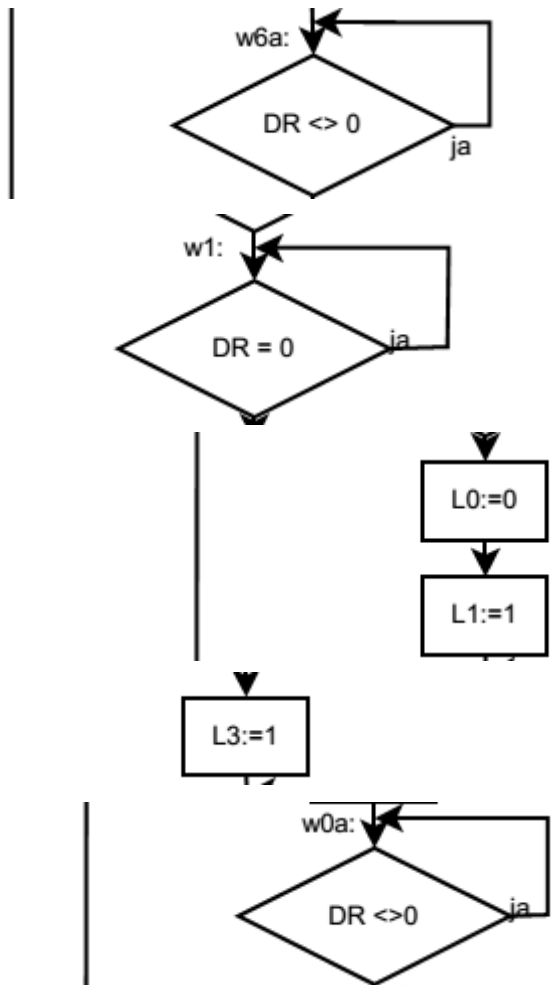
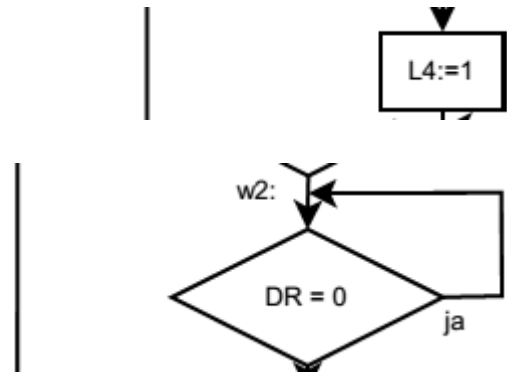
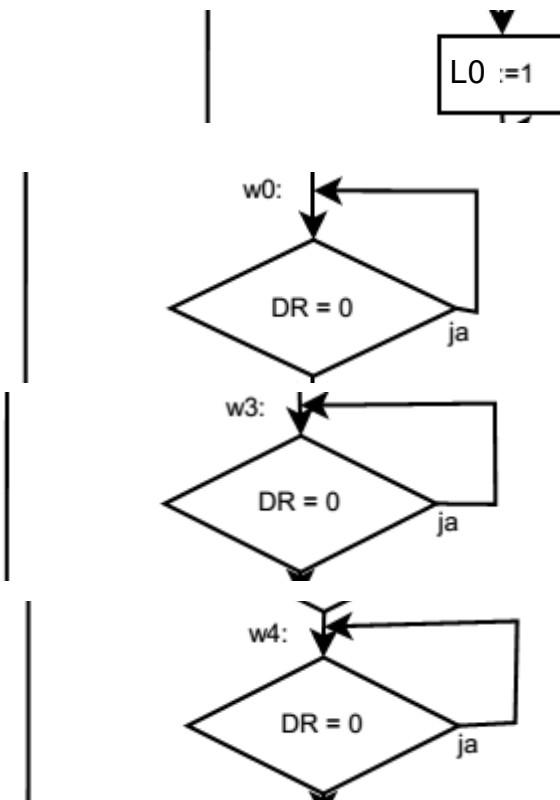
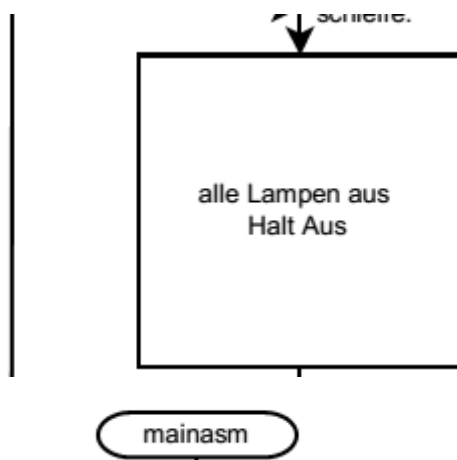
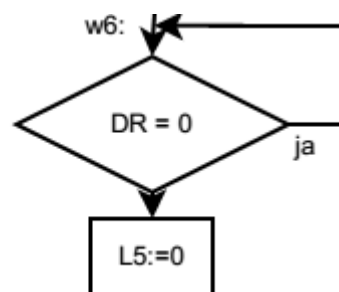
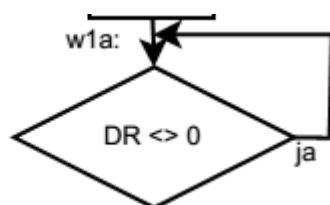
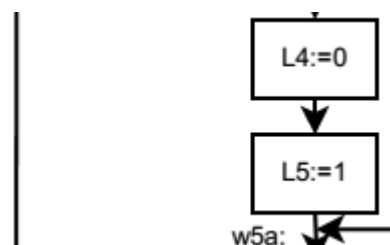
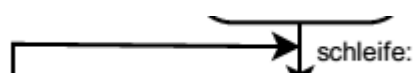
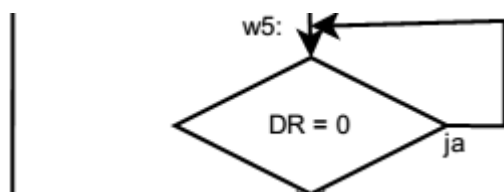
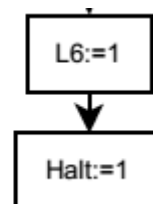
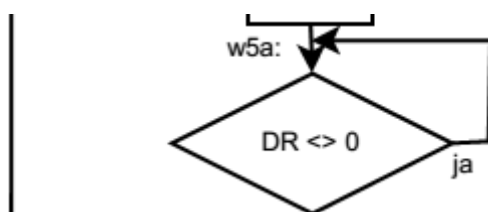
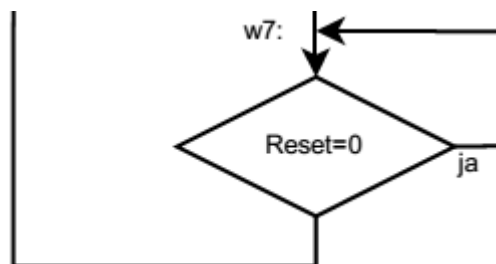
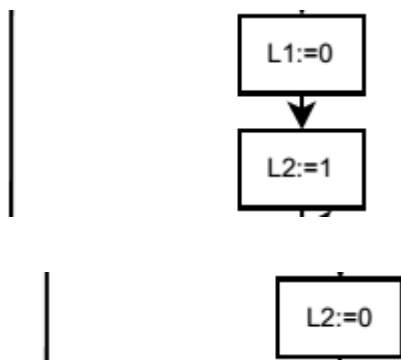


```
//Definitionen:
.equ L0,PC0
.equ L1,PC1
.equ L2,PC2
.equ L3,PC3
.equ L4,PC4
.equ L5,PC5
.equ L6,PC6
.equ Halt,PC7
.equ DR,PA10
.equ Reset,PA6
```





```

        mov     R0,L6+HALT
        strb    R0,[R2,BSR]

        b schleife

        w7:    ldr     R0,[R4,IDR]
               tst     R0,Reset
               beq     w7

        mov     R0,L4 //L4 aus
        strb    R0,[R2,BRR]

        mov     R0,L3 //L3 an
        strb    R0,[R2,BSR]

               mov     R0,L5 //L5 an
               strb    R0,[R2,BSR]

        mov     R0,L1 //L1 aus
        strb    R0,[R2,BRR]

               mov     R0,L2 //L2 aus
               strb    R0,[R2,BRR]

        w2:    //warten auf Dr
               ldr     R0,[R4,IDR]
               tst     R0,DR
               beq     w2

               mov     R0,L0 //L0 aus
               strb    R0,[R2,BRR]

        w1a:   ldr     R0,[R4,IDR]
               tst     R0,DR
               bne     w1a

        w2a:   ldr     R0,[R4,IDR]
               tst     R0,DR
               bne     w2a

        w0a:   ldr     R0,[R4,IDR]
               tst     R0,DR
               bne     w0a

        main:  ldr     R2,=GPIOC
               ldr     R4,=GPIOA

        schleife:
               mov     R0,#0x0
               strb    R0,[R2,ODR]

               mov     R0,L1 //L1 an
               strb    R0,[R2,BSR]

        w1:    //warten auf Dr
               ldr     R0,[R4,IDR]
               tst     R0,DR
               beq     w1

        w4a:   ldr     R0,[R4,IDR]
               tst     R0,DR
               bne     w4a

        mov     R0,L4 //L4 an
        strb    R0,[R2,BSR]

               mov     R0,L5 //L5 aus
               strb    R0,[R2,BRR]

        w3a:   ldr     R0,[R4,IDR]
               tst     R0,DR
               bne     w3a

        w6a:   ldr     R0,[R4,IDR]
               tst     R0,DR
               bne     w6a

        w0:    ldr     R0,[R4,IDR]
               tst     R0,DR
               beq     w0

w6:    //warten auf Dr
       ldr     R0,[R4,IDR]
       tst     R0,DR
       beq     w6

w4:    //warten auf Dr
       ldr     R0,[R4,IDR]
       tst     R0,DR
       beq     w4

w5:    //warten auf Dr
       ldr     R0,[R4,IDR]
       tst     R0,DR
       beq     w5

       mov     R0,L3 //L3 aus
       strb    R0,[R2,BRR]

w3:    //warten auf Dr
       ldr     R0,[R4,IDR]
       tst     R0,DR
       beq     w3

```