.include "m32def.inc" .def temp = R16 .def vismin = R17 .def sek = R18 .def min = R19 .org 0x0 jmp start .org 0x2 jmp bryter2 .org 0x4 jmp bryter3 .org 0xe jmp sekund

Start:

; Clear clr temp clr vismin clr sek clr min

; Morklegge dioder ldi temp, 0xff out DDRB, temp

; Initialisere stack-peker ldi temp, 0x02 out sph, temp ldi temp, 0x5f out spl, temp

; Initialiser for avbrudd fra INT0 og INT1

ldi temp, 0xC0 Out GICR, temp ldi temp, 0x0A Out MCUCR, temp

; Initialiser for timer1 ldi temp, 0x10 Out TIMSK, temp ldi temp, 0b00001011 out TCCR1B, temp ldi temp, 0xf4 out OCR1AH, temp ldi temp, 0x24 Out OCR1AL, temp sei

;Interrupt rutine

Audun1: Cpi vismin, 0 breq HP2 cli com min out portB, min com min Sei jmp Audun1

HP2: Cli Com sek Out portb, sek com sek Sei jmp Audun1

; Bryter avbrudd

bryter2: ldi vismin, 1 reti

bryter3: ldi vismin, 0 reti

;Sekund avbrudd

Sekund: push temp ldi temp, sreg push temp

ldi temp, 0x1 add sek, temp

cpi sek, 60 breq minpluss1

sekpluss1:

pop temp out sreg, temp pop temp reti

; Minutt avbrudd minpluss1: ldi temp, 1 add min, temp clr sek

cpi min, 60 brne sekpluss1 clr min jmp sekpluss1