.org 0x0000

call lcd\_16x2\_i2c ;Sets up the '328 ic2 port so that it can talk to the LCD using i2c.

ldi r25,0 ;volume

ldi r16,0b00

out ddrb,r16

top:

rcall lcd\_16x2\_i2c\_home

rcall lcd\_16x2\_i2c\_dd

wfl:

in r16,pinb

andi r16,0b01 ;just the clock

cpi r16,0b00 ;deos clock=0

brne wfl ; branch if not =0

wfh:

in r16,pinb

andi r16,0b01 ;just the clock

cpi r16,0b01 ;deos clock=1

brne wfh ; branch if not =1

in r16,pinb ;read data line

andi r16, 0b10

cpi r16,0b00

brne decrease

;increase:

;increase volume

inc r25

rjmp top

decrease:

;decrease volume

dec r25

rjmp top

.include "c:\avr\lcd\_16x2\_i2c.asm"