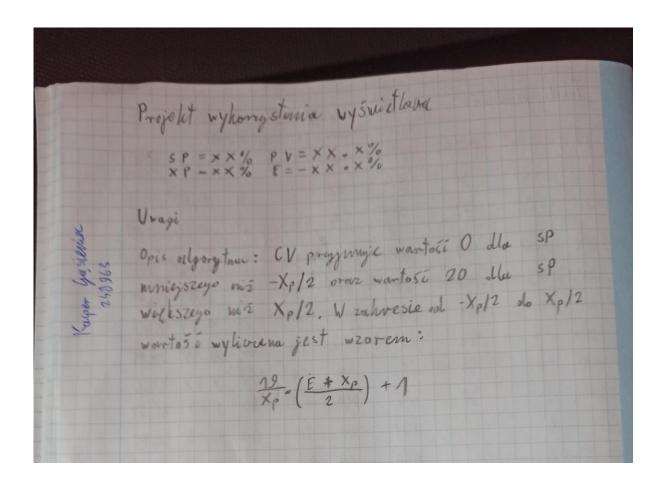


0	E[xp]	E[1/2]	PV[%]	zalves P PV [ADC]	PV[12]	PUEVI	CVE%	7 1/1[4]	+H1:1/20137 ×100%
• Kouger Gasiemise 268963	-1,00	-40	90	921	360	4,5	0		0,00
	-055	-22	72	737	288	3,6	0	0,00	0,00
	-0,50	-20	90	716	280	3,7	0	0,00	0,00
	-0,15	-18	68	696	272	3,4	5	0,83	4,15
	-0,40	-16	66	675	264	3,3	10	7,63	3,15
	-0,20	-3	58	593	232	2,9	30	9,13	23.15
	-0,10	-4	54	552	216	2,7	40	7,72	33,60
	0,00	0	50	512	200	2,5	00	9,10	35,50
	0,10	4	46	471	784	2,3	60	12,03	60,15
	0,20	8	42	430	163	2,1	70	19,21	31,05
	0.40	16	34	348	136	1,7	90	17,86	89,30
	0,45	18	32	327	128	1,6	95	18,73	93,65
	0,50	20	30	307	120	1,5	100	20,00	100,00
	0,55	22	28	286	112	7,5	100	20,06	
	1,00	40	10	102	40	0,5	100	20,00	700,00
	Chowah	terystylo	e vegula	itare propo	rejonali	reyo 1 s	terouen	rie metor	lar PWM
	1- ng#/5-	0%	5%			o ×	7	* 1	*
	0 + 0%		Xpl2	X ₁ /2	E	o S	T	* 1	×
	* 10	u wowto	śū 0,00s	; 20,00s	brak s	mabiey	u-kol	jno stan	visli i vgodo

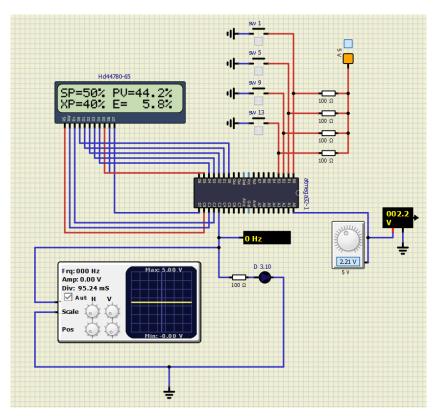


Kod programu (z pominięciem inicjalizacji LCD):

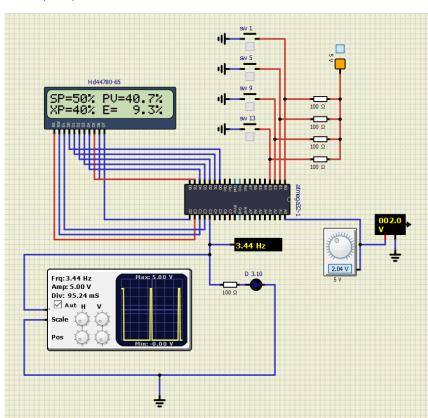
```
int _sp = 50;
int _xp = 40;
  int _e;
  int int_e;
  int dec_e;
  float _pv;
  int full_pv;
  int int_pv;
  int dec_pv;
  int _T=20;
int _cv = 10;
 □int main(void)
       char tmp[16];
      int i;
      DDRD = 0xff;
      PORTD = 0x00;
      DDRC = 0xff;
      PORTC = 0x00;
      DDRB = 0 \times 00;
      PORTB = 0xff;
      DDRC = (1 << 3) | (1 << 4);
      _delay_ms(500);
      LCD2x16_init();
      LCD2x16_clear();
       ADMUX = 0x40;
       ADCSRA = 0xe0;
```

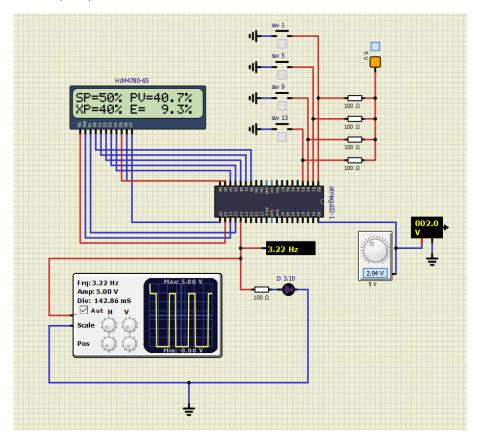
```
while (1)
{
     ADCSRA = ADCSRA | (1 << ADSC);
     while (ADCSRA & (1 << ADSC));
     _{pv} = ADC;
     full_pv = (_pv / 1023.0) * 1000;
     int_pv = full_pv / 10;
     dec_pv = full_pv % 10;
     _e = _sp - int_pv;
     int_e = _e / 10;
     dec_e = _e % 10;
if(_e < -_xp/2) _cv =0;
else if(_e >= _xp/2) _cv=20;
else _cv = (((_e+_xp/2)*19/_xp)+1);
     for (i=0; i<20; i++)
     {
         if(i < _cv \&\& _cv != 0)
             PORTC |= 1 << PINC3; //wlacz diode
         }
         else
     {
             PORTC &= ~(1 << PINC3); //wylacz diode
         }
         delay_ms(10);
     }
    //przyciski
    if (!(PINB & (1 << PB0)))
       _{sp} = 50;
    if (!(PINB & (2 << PB0)))
       _sp = 40;
    if (!(PINB & (3 << PB0)))
    {
       _{xp} = 30;
    if (!(PINB & (4 << PB0)))
    {
       _{xp} = 40;
    LCD2x16_pos(1, 1);
    sprintf(tmp, "SP=%2d%% PV=%2d.%1d%% ", _sp, int_pv, dec_pv);
    for (i = 0; i < 16; i++)
    {
       LCD2x16_putchar(tmp[i]);
    LCD2x16_pos(2, 1);
    sprintf(tmp, "XP=%2d%% E=%3d.%1d%% ", _xp, _e, dec_e);
    for (i = 0; i < 16; i++)
       LCD2x16_putchar(tmp[i]);
    delay_ms(100);
}
return 0;
```

}

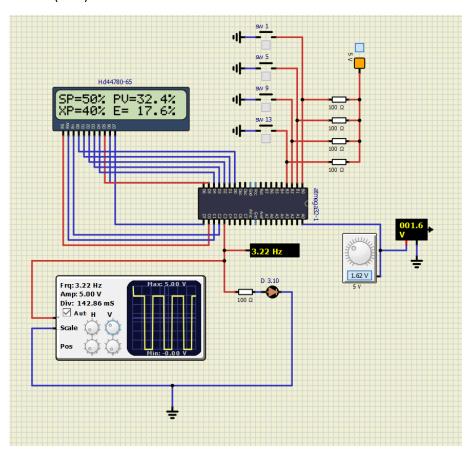


cv = 2 (10%)





cv = 18 (90%)



cv = 20 (100%)

