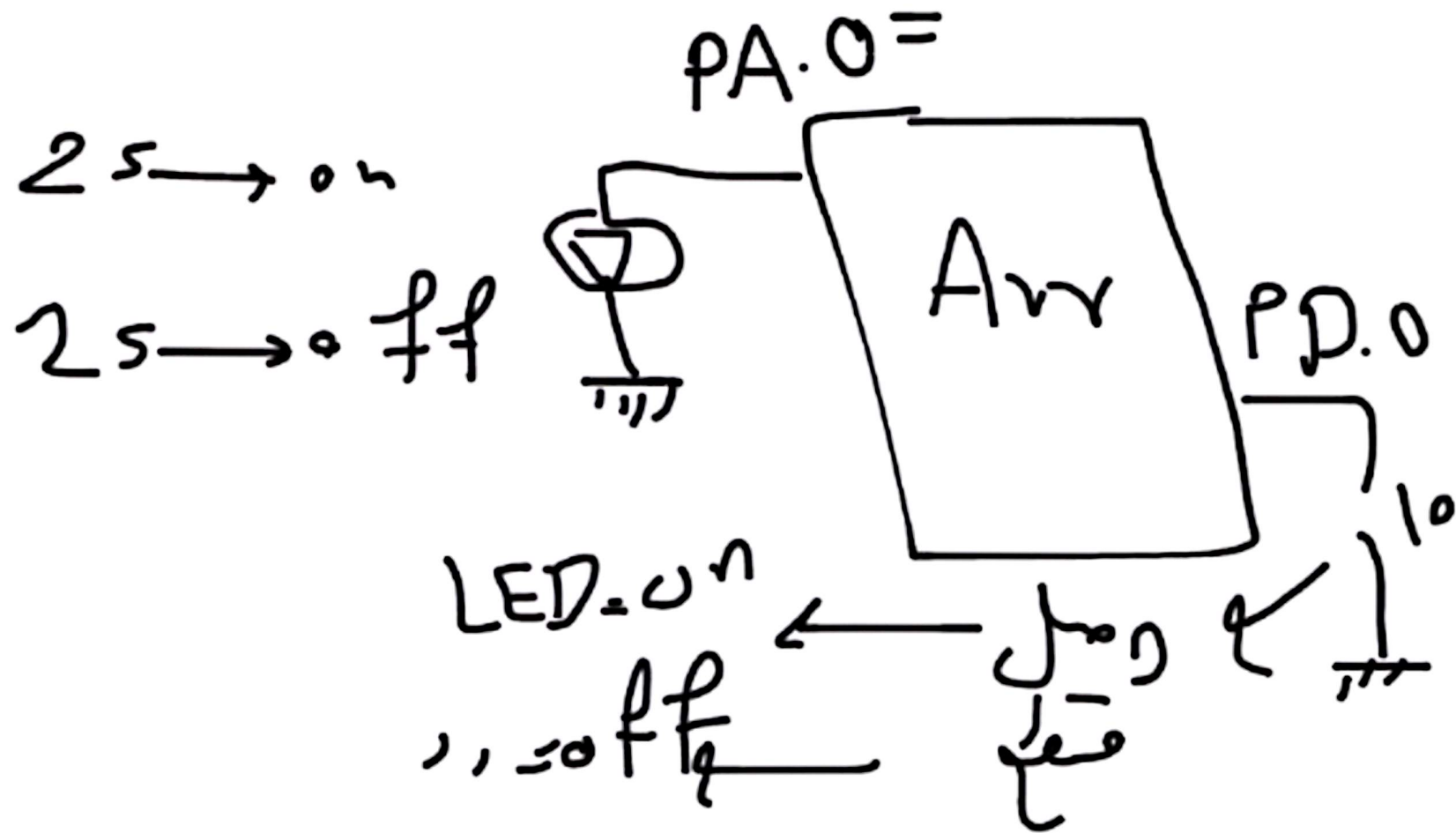
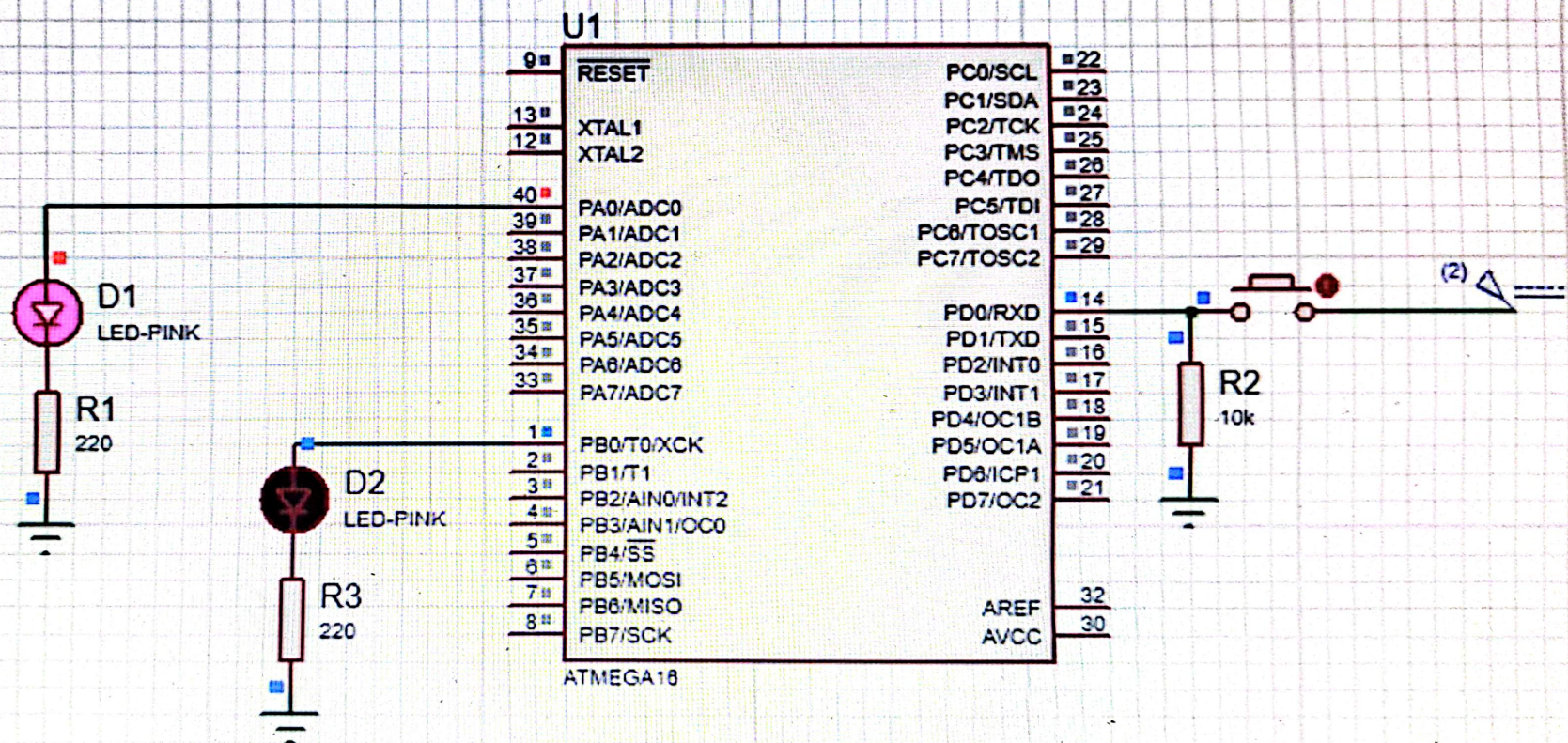
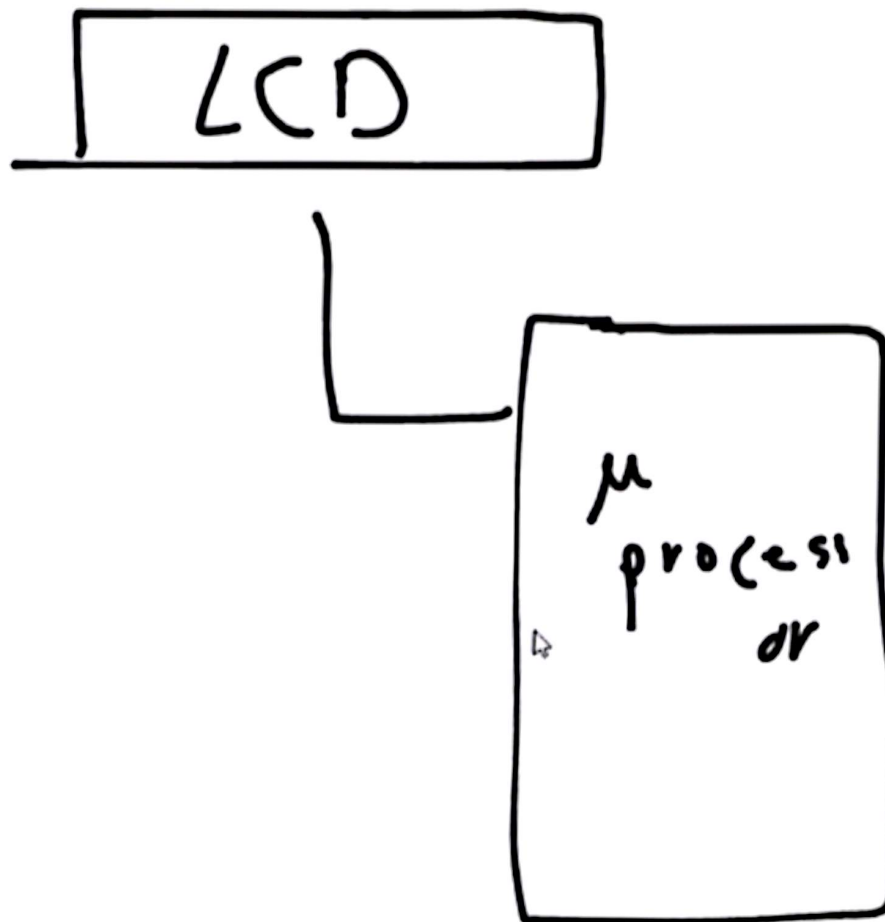
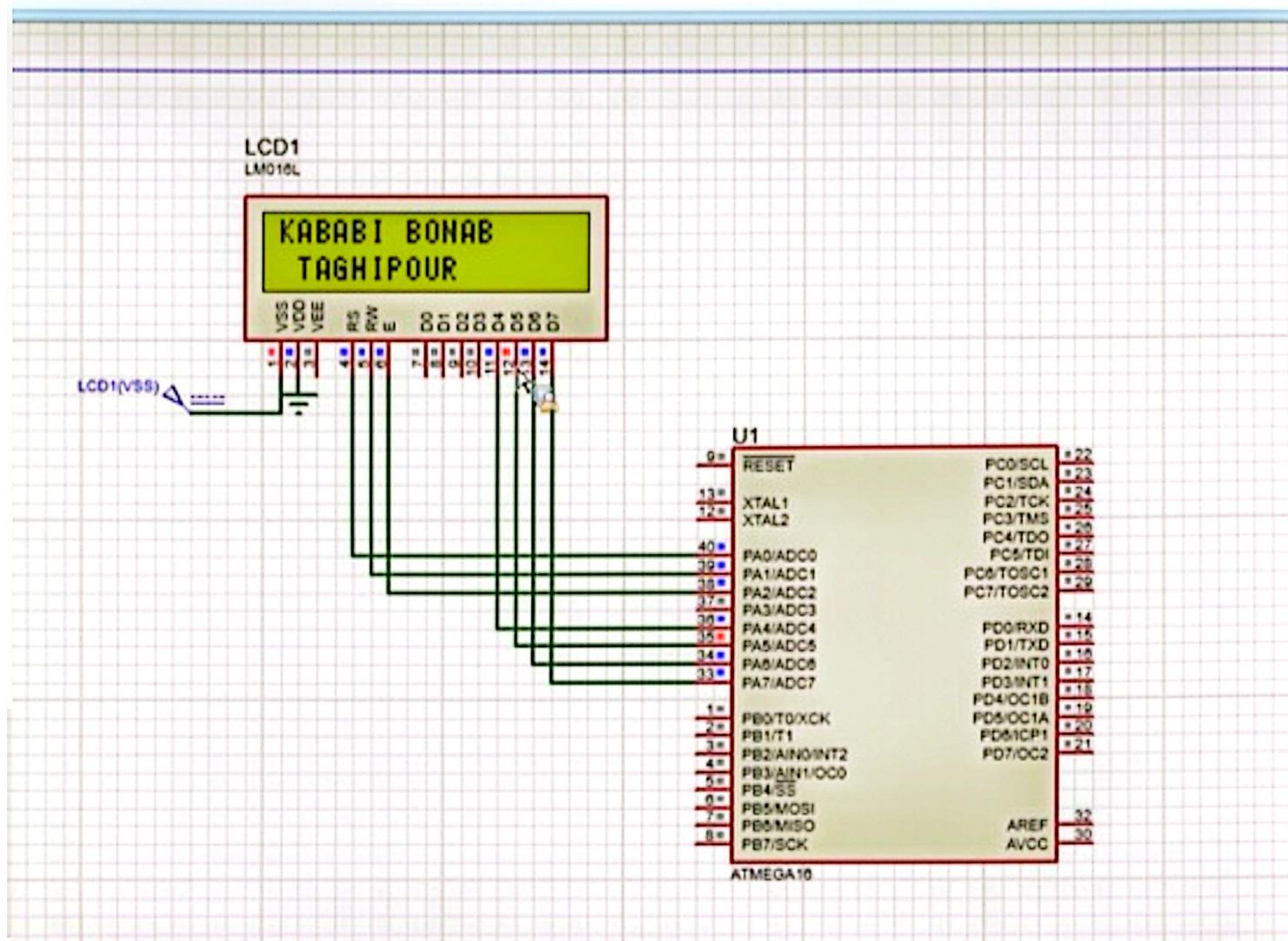






```
133
134 while (1)
135 {
136     // Place your code here
137     if (PIND.0==1) {
138         PORTA.0=1;
139         PORTE.0=0;
140     }
141
142     if (PIND.0==0) {
143         PORTA.0=0;
144         PORTE.0=1;
145     }
146 }
```





1500 (CPU load 49%)

0:30:11/1:59:46

```
147 // D7 - PORTA Bit 7
148 // Characters/line: 16
149 lcd_init(16);
150
151 while (1)
152 {
153     // Place your code here
154     lcd_puts("KARABI BONAB TAGHIPOUR");
155     //lcd_gotoxy(0,0);
156     delay_ms(2000);
157     lcd_clear();
158 }
159
160
```



```
149 // Characters/line: 16
150 lcd_init(16);
151
152 while (1)
153 {
154     // Place your code here
155     if (n<11) {
156         lcd_gotoxy(0,0);
157         sprintf(str,"N= %d",n);
158         lcd_puts(str);
159         delay_ms(1000);
160         n++;
161     }
162     else{
163         lcd_gotoxy(0,0);
164         lcd_puts("By:Mahsa Nikfarjam & soonia shahinjo");
165         delay_ms(1000);
166         lcd_clear;
167         n=0;
168     }
169 }
170
171
```

DEVICES
ATMEGA16
LM016L

LCD1
LM016L

N= 0ahsa NikfarJ
an & soonia shah

VSS	VDD	VEE	RS	RW	E	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

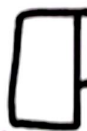
U1

Pin	Function	Pin	Function
0	RESET	22	PC0/SCL
13	XTAL1	23	PC1/SDA
12	XTAL2	24	PC2/TCK
40	PA0/ADC0	25	PC3/TMS
39	PA1/ADC1	26	PC4/TDO
38	PA2/ADC2	27	PC5/TDI
37	PA3/ADC3	28	PC6/TOSC1
36	PA4/ADC4	29	PC7/TOSC2
35	PA5/ADC5	14	PD0/RXD
34	PA6/ADC6	15	PD1/TXD
33	PA7/ADC7	16	PD2/INT0
1	PB0/T0/XCK	17	PD3/INT1
2	PB1/T1	18	PD4/OC1B
3	PB2/AIN0/INT2	19	PD5/OC1A
4	PB3/AIN1/OC0	20	PD6/ICP1
5	PB4/SS	21	PD7/OC2
6	PB5/MOSI	32	AREF
7	PB6/MISO	30	AVCC
8	PB7/SCK		

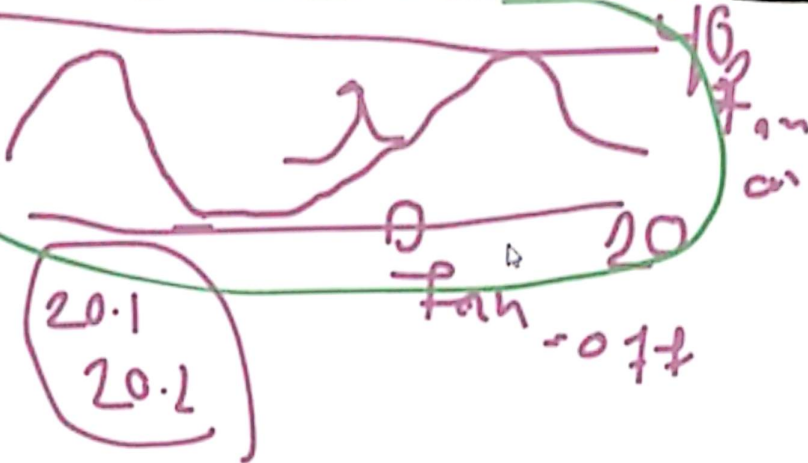
ATMEGA16

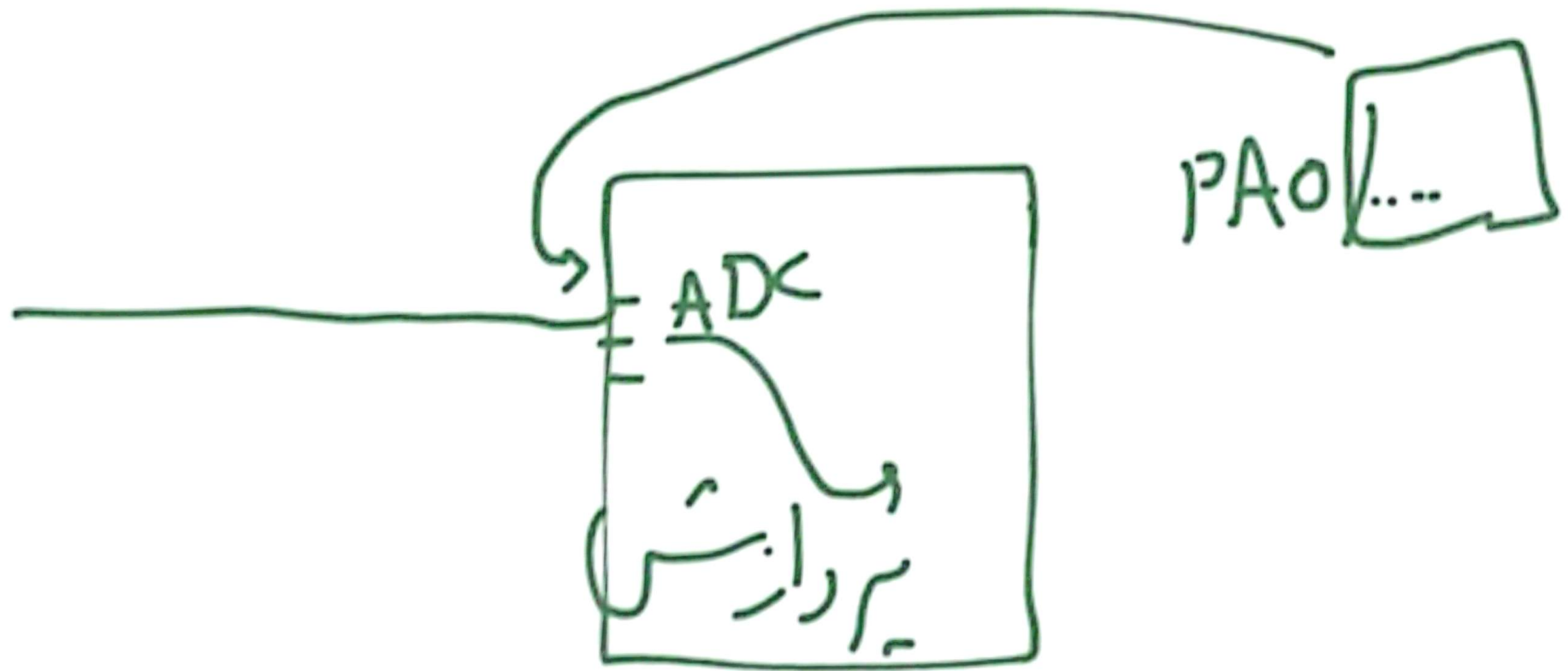
ADC

Sens



60





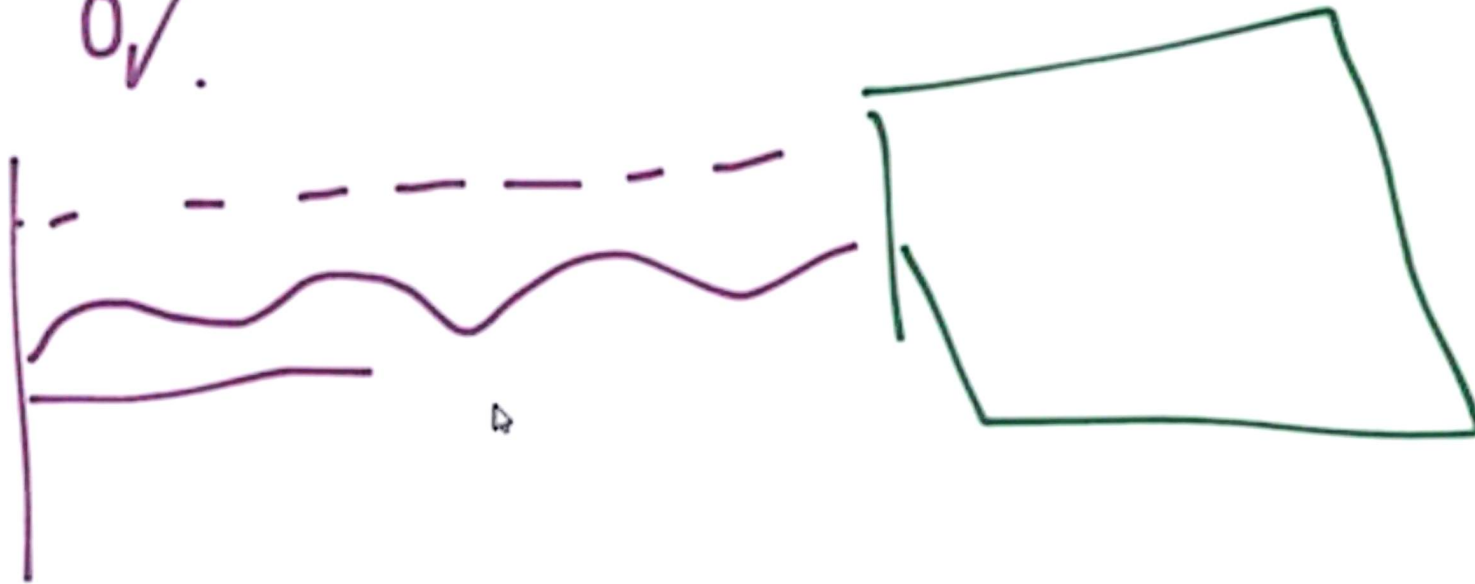
Sensor

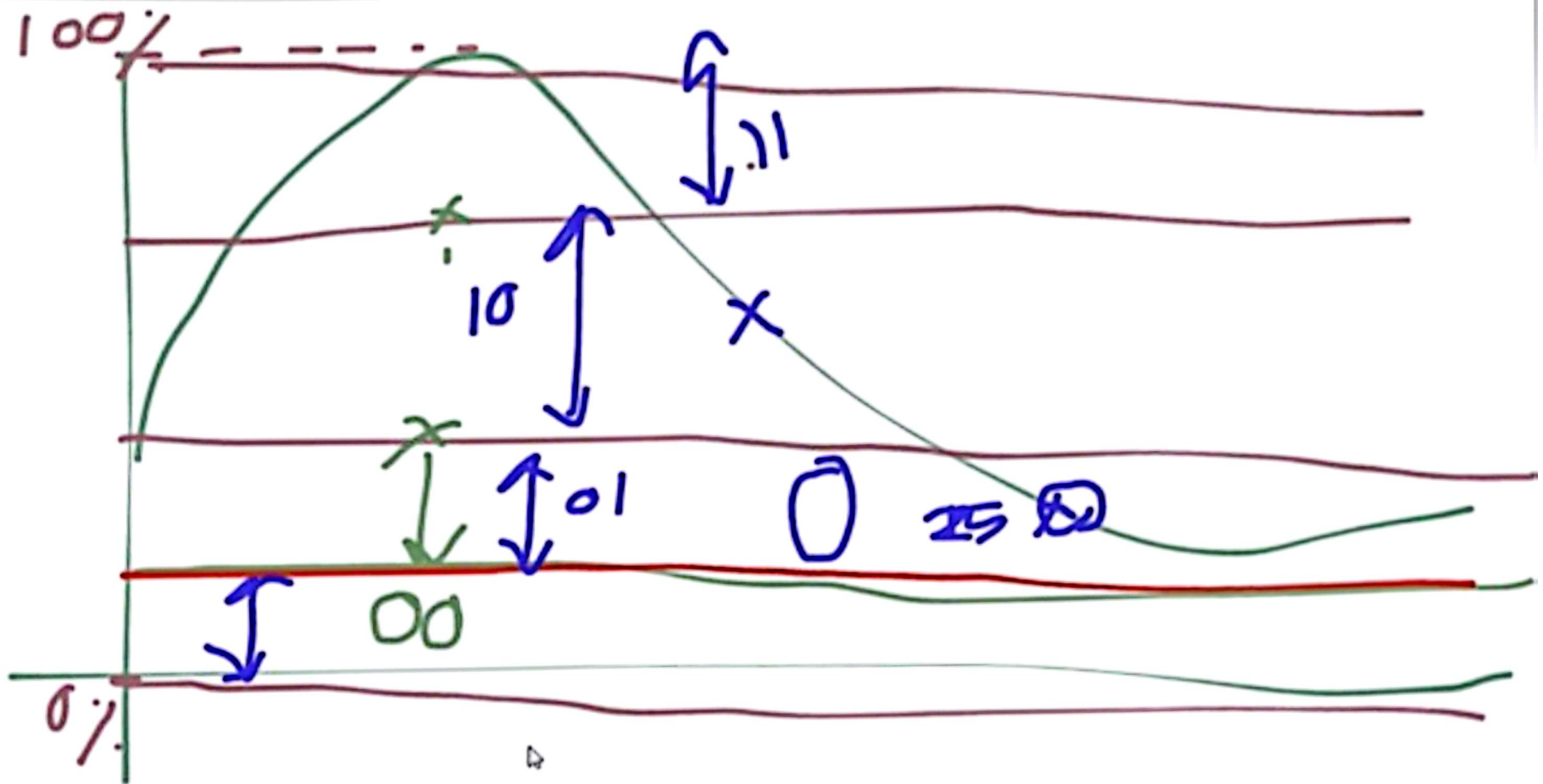
الطوبت

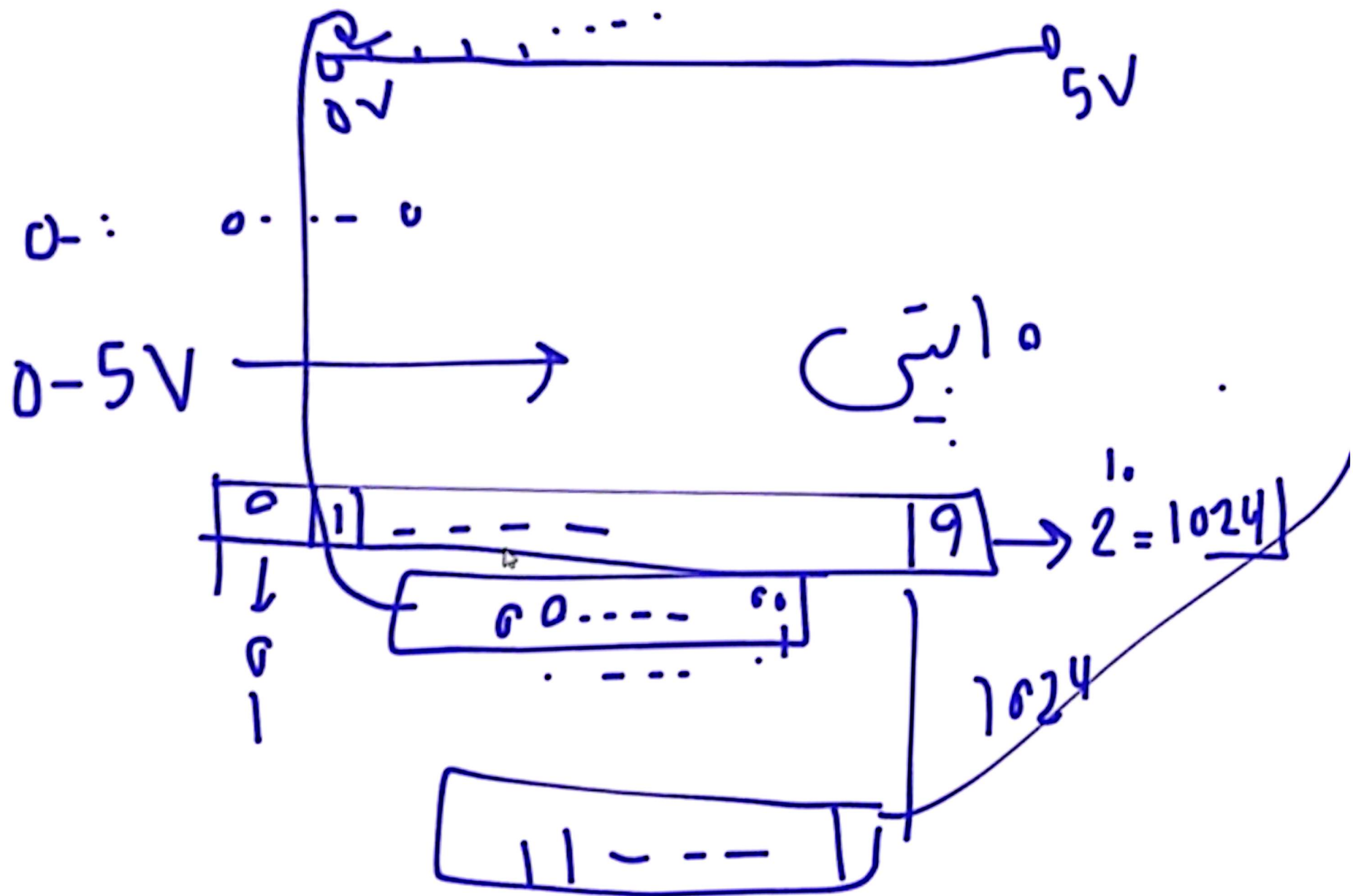
100%

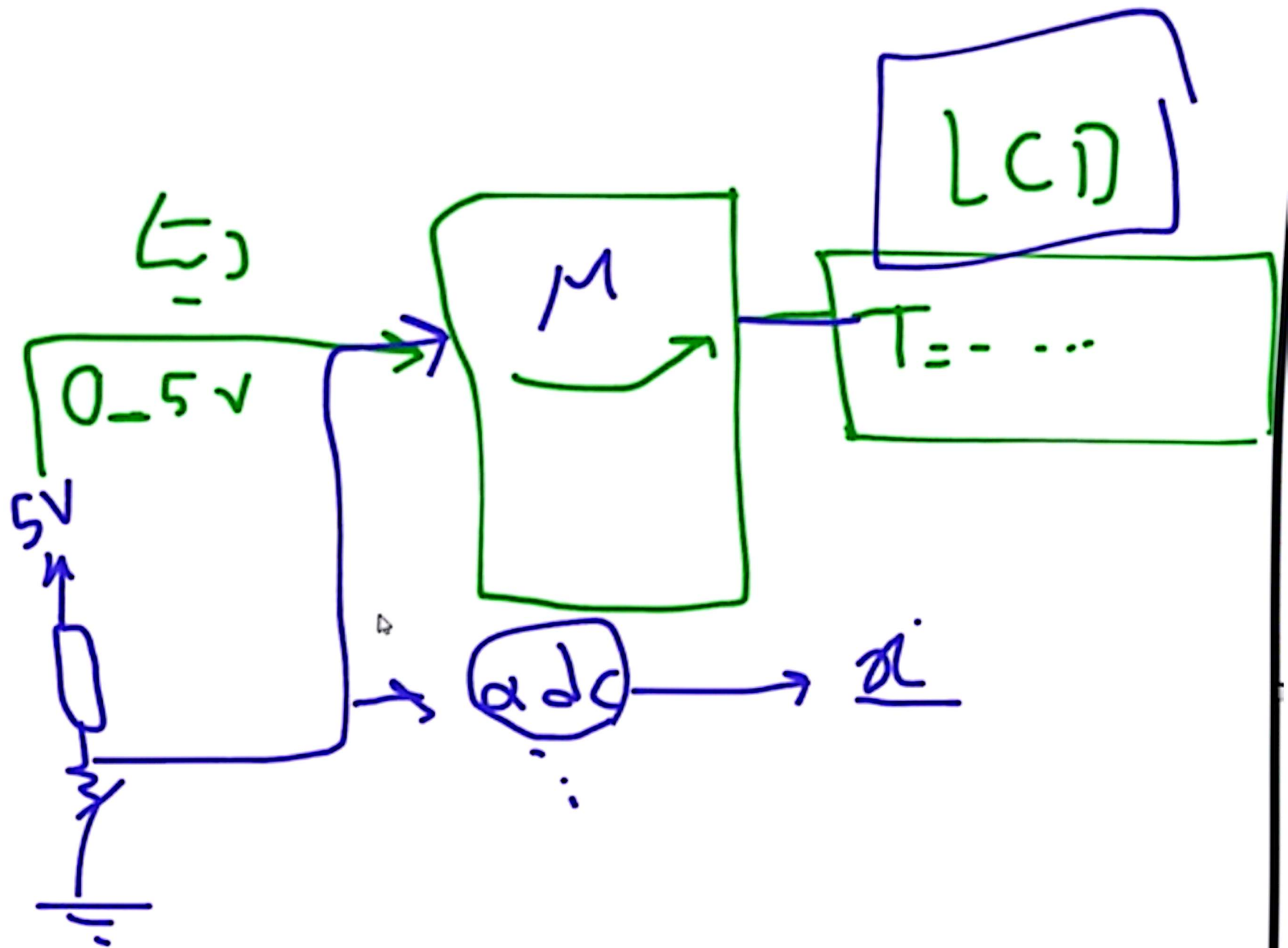
0.5V

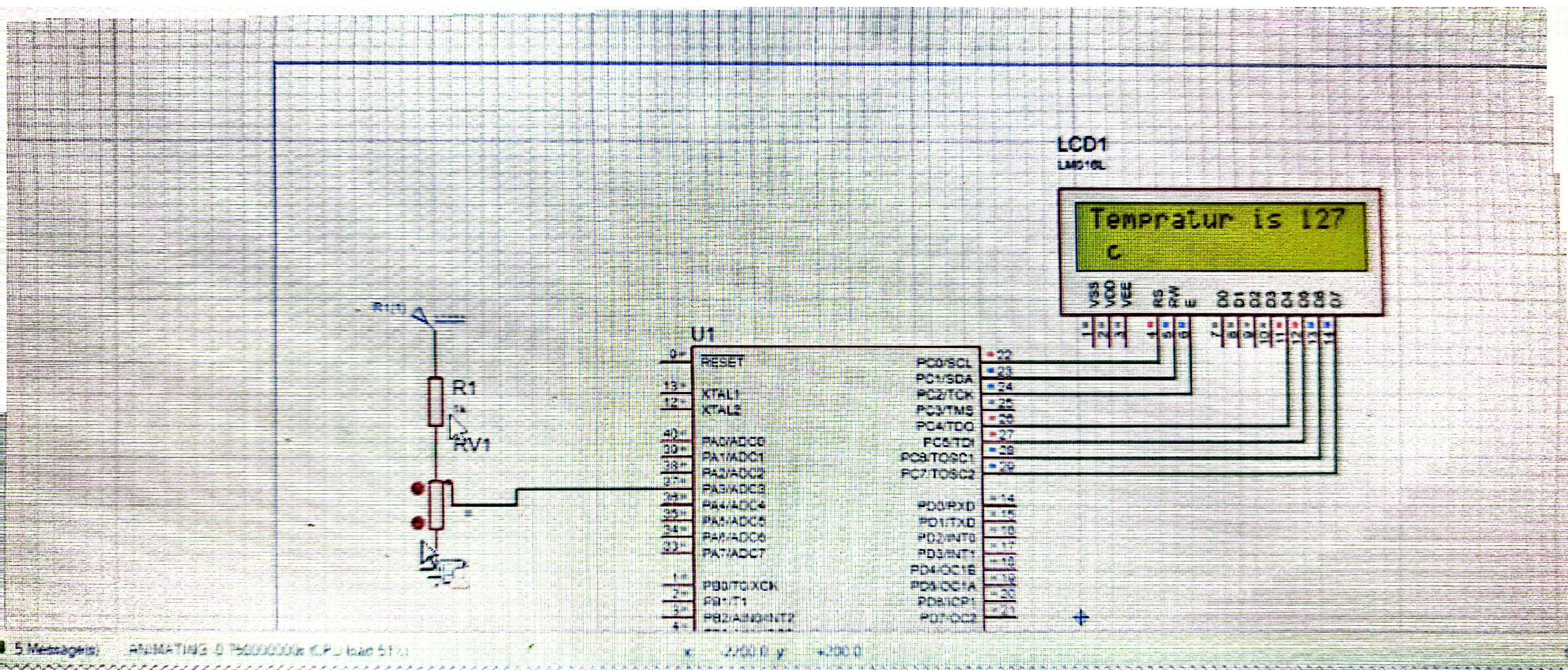
0V











```
172 // D7 - PORTC Bit 7
173 // Characters/line: 16
174 lcd_init(16);
175
176 while (1)
177 {
178     // Place your code here
179     x=read_adc(3) ;
180     lcd_gotoxy(0,0);
181     sprintf(c,"Tempratur is %d c",x);
182     lcd_puts(c);
183 }
184
185
```