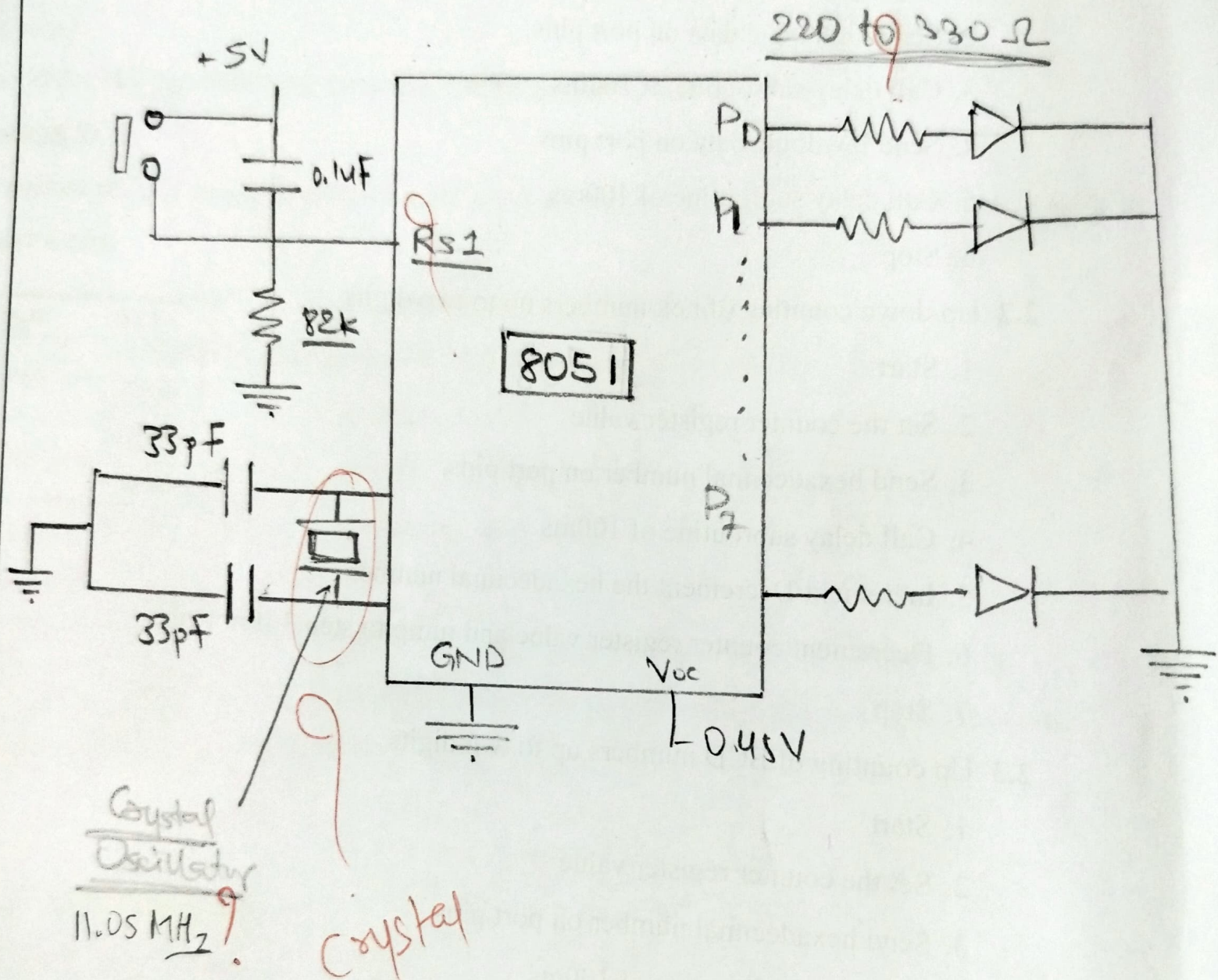


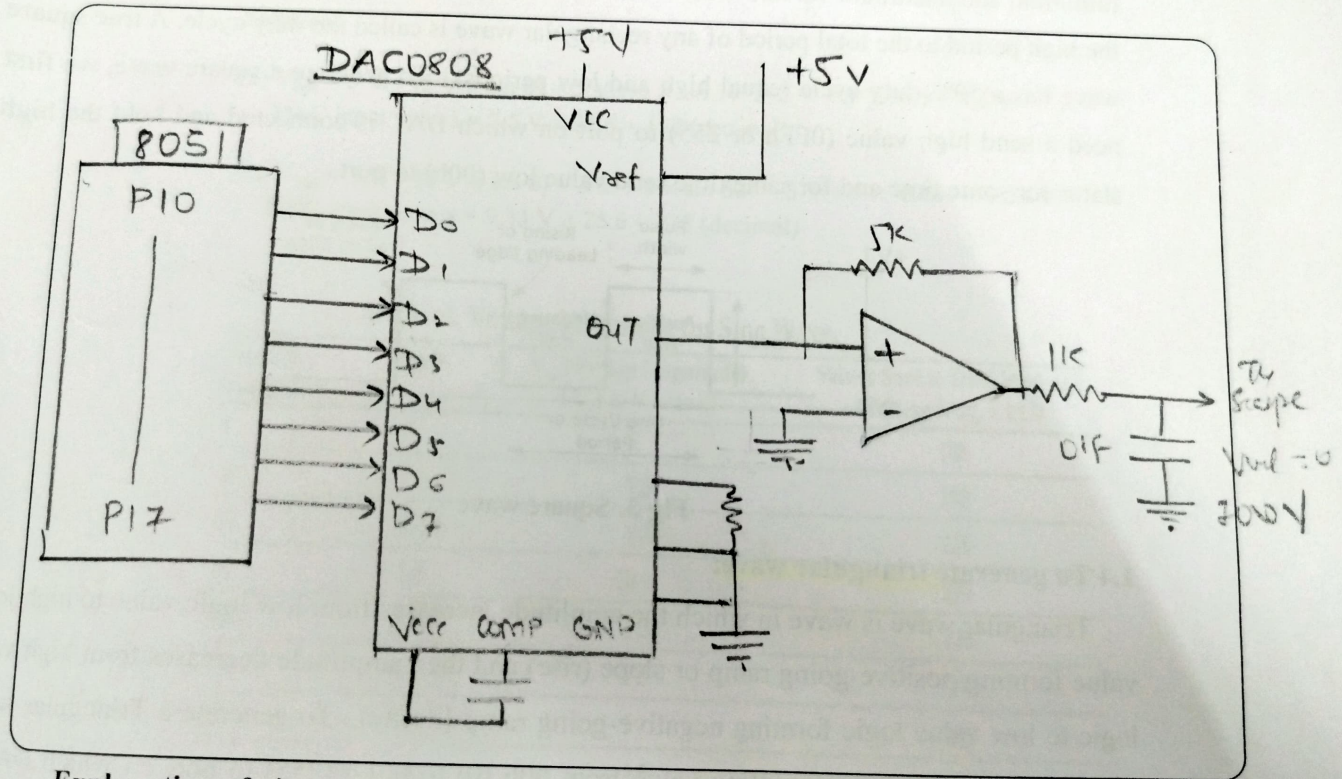
3. Interfacing Diagram

Exp 02, LED hex



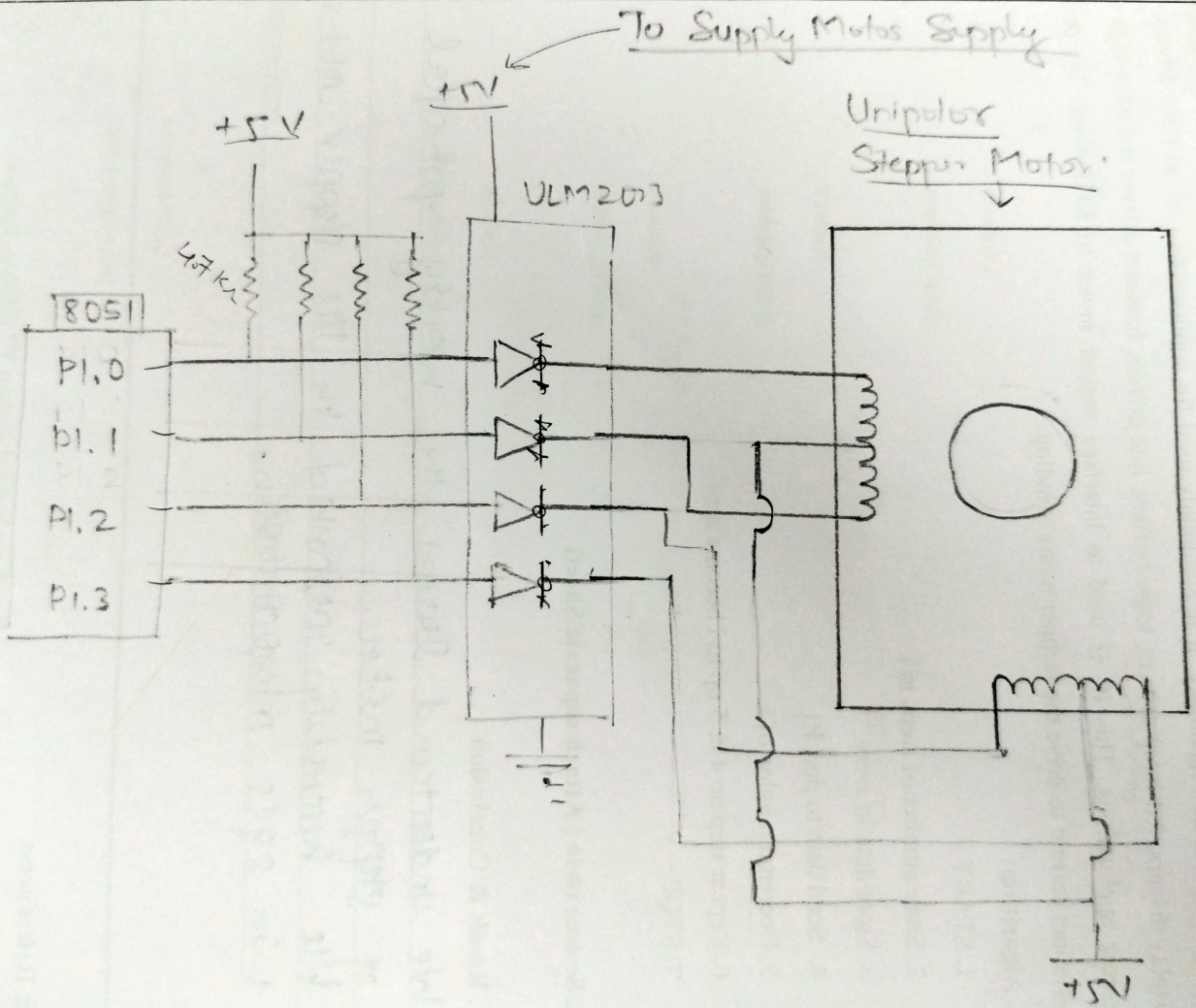
$$I_{out} = I_{ref} \left(\frac{D7}{2} + \frac{D6}{4} + \frac{D5}{8} + \frac{D4}{16} + \frac{D3}{32} + \frac{D2}{64} + \frac{D1}{128} + \frac{D0}{256} \right)$$

1.2 Interfacing of DAC0808 with 8051:

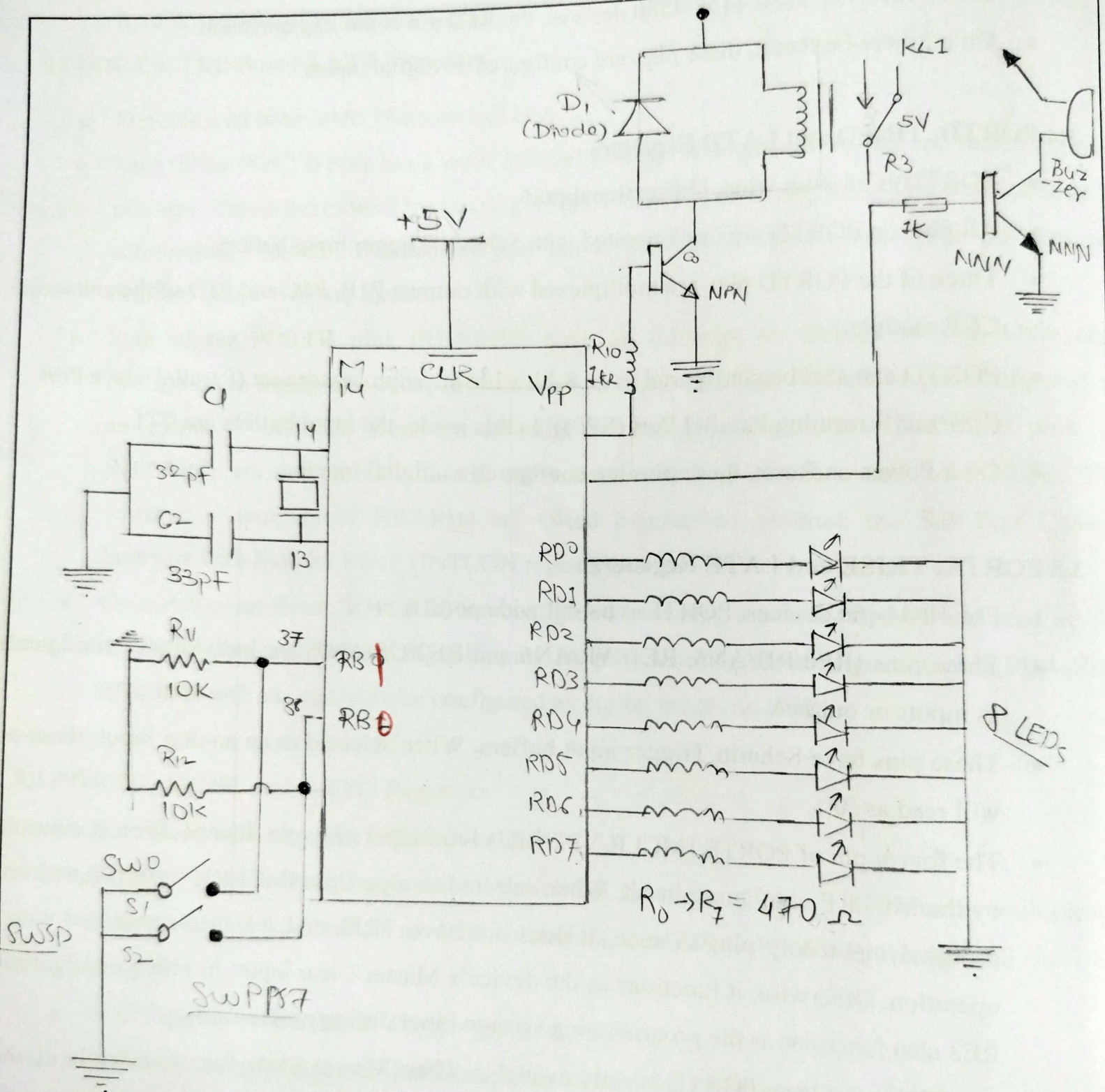


Explanation of pin connections:

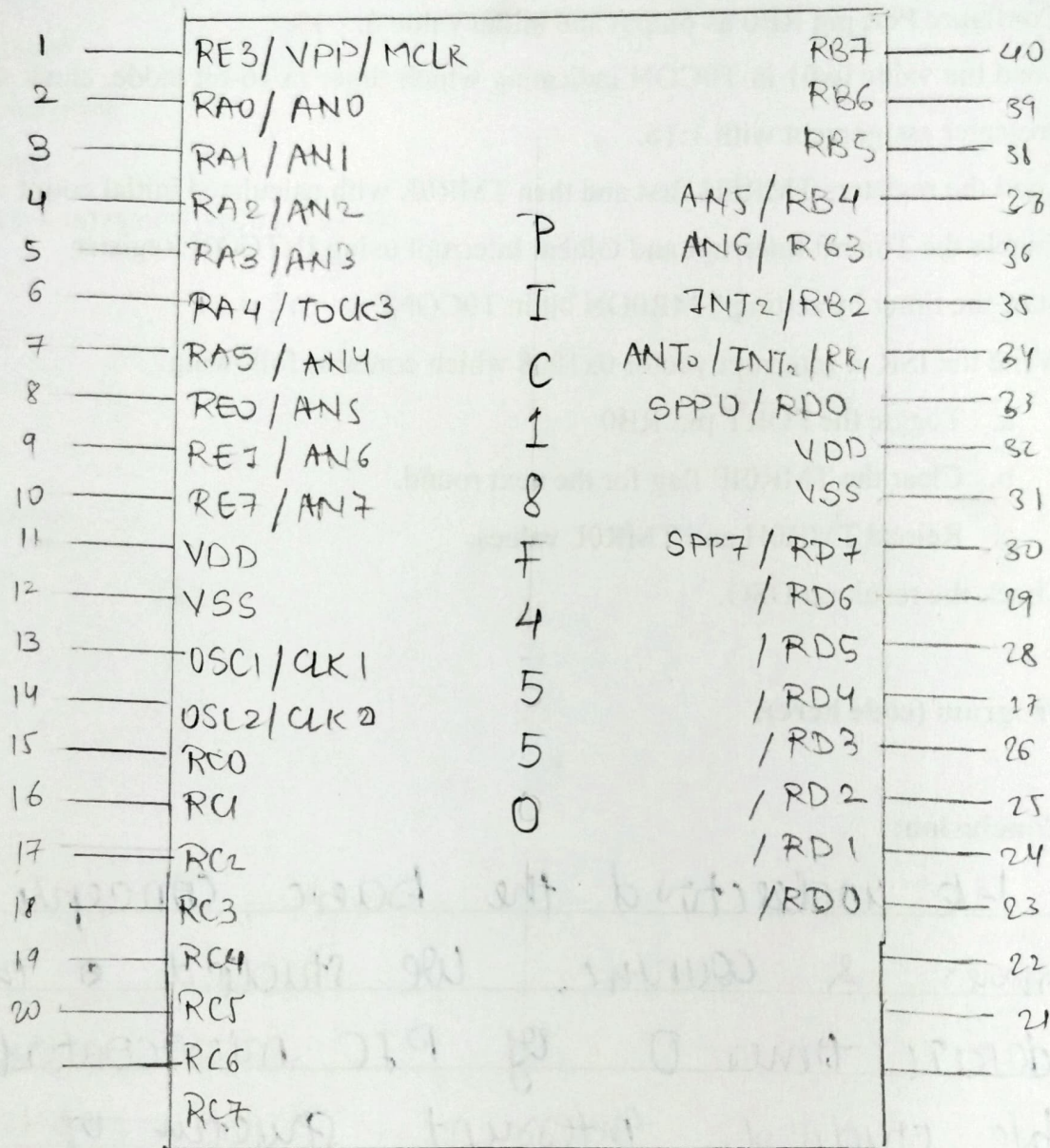
2. Interfacing Diagram



4. Interfacing Diagram



6. Interfacing Diagram

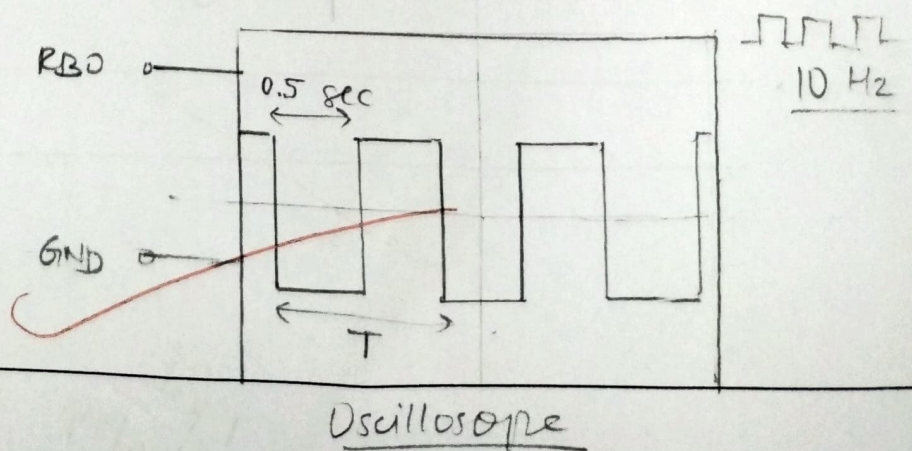


$$T = 0.1 \text{ sec}$$

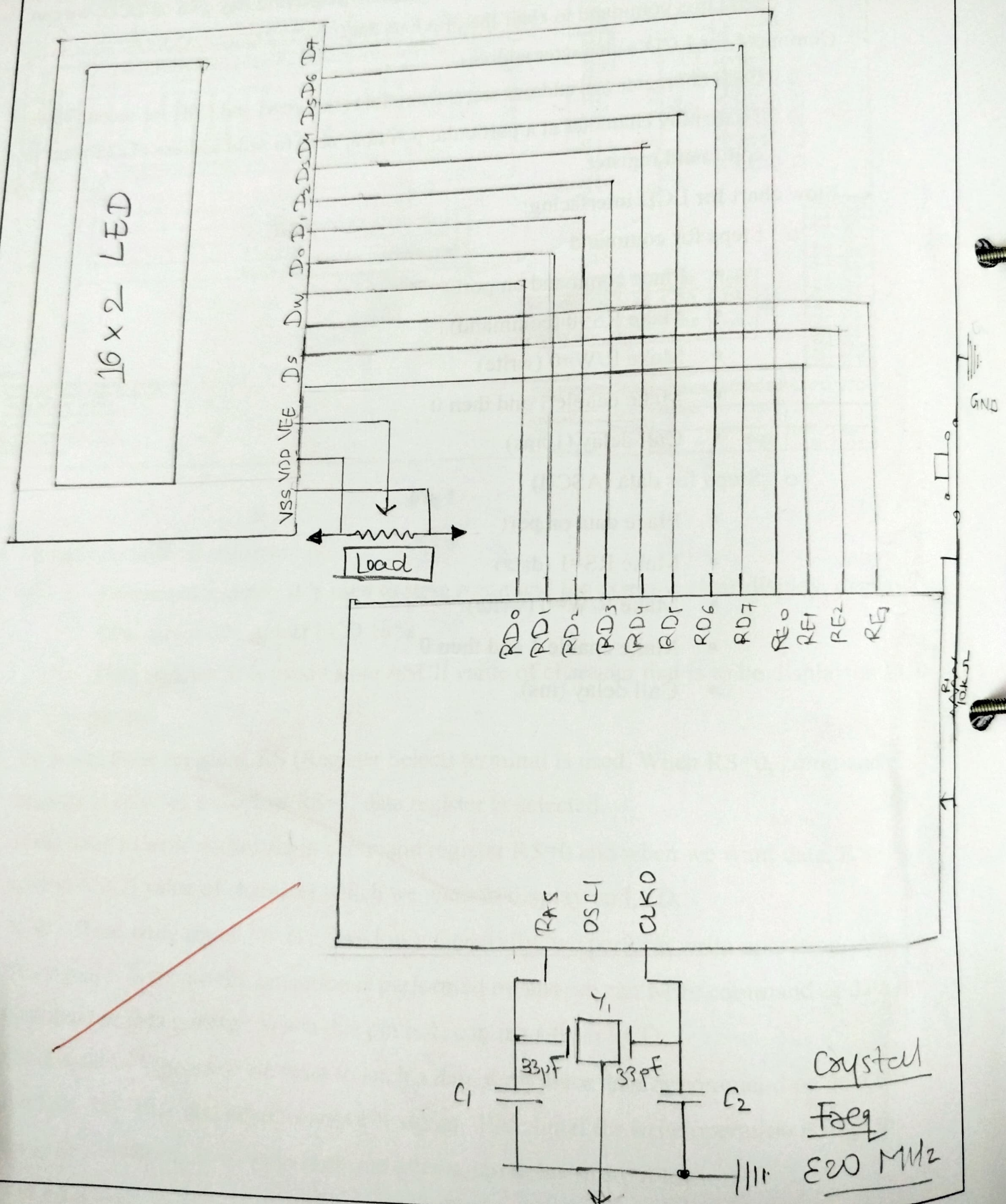
$$T_{\text{ans}} = 50 \text{ msec}$$

$$f = 10 \text{ Hz}$$

$$T_{\text{int}} = 50 \text{ msec}$$

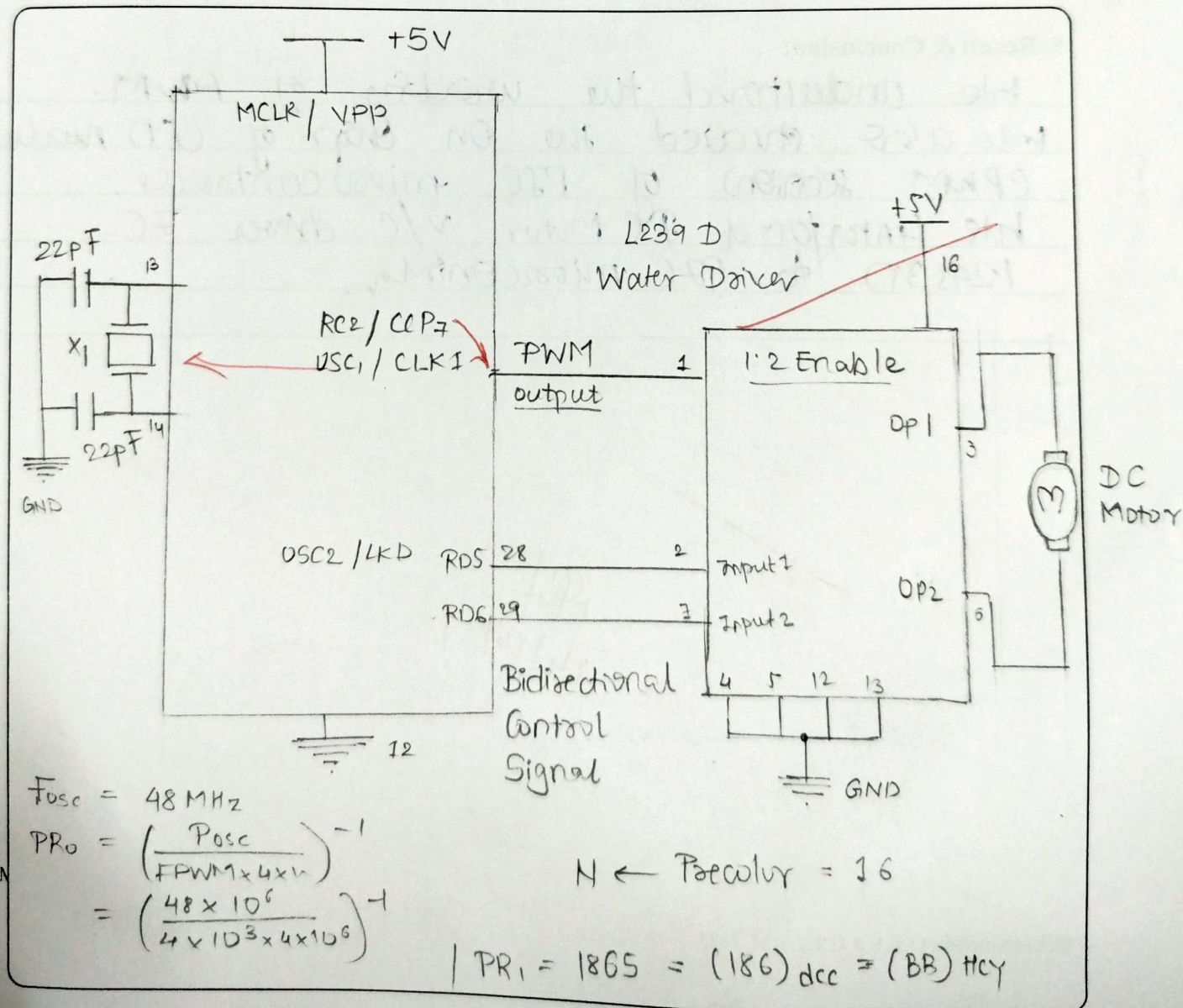


5. Interfacing diagram

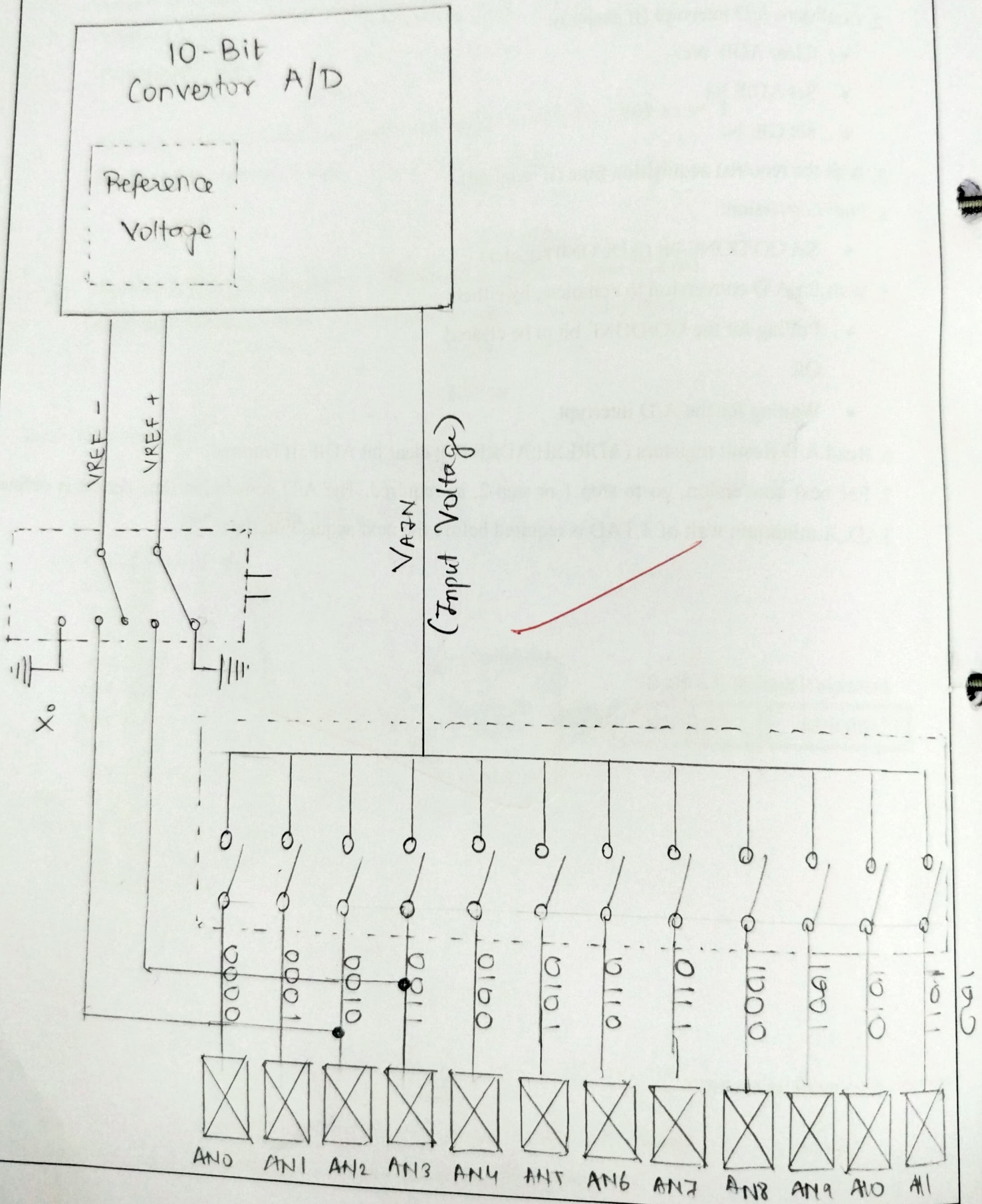


	Duty Cycle	CCPR1L Value	CCP1CON<5:4> DC1B1:DC1B0
$F_{osc} = 48 \text{ MHz}$ $\text{PWM} = 4 \text{ KHz}$ $\text{PR2} =$	20%	$0 \times 2F$	10
	40%	$0 \times 4A$	11
	60%	0×70	01
	80%	0×95	10
	100%	$0 \times B0$	00

6. Interfacing diagram



5. Interfacing diagram



Sr.No.	Vin(Volts)	Result on ADC
1.	0	0
2.	1.22	250
3.	2.44	500
4.	3.66	750
5.	4.99 \approx 5	1023

Conclusion:

We studied the working of PID Controller
Also we studied the on-chip ADC
system of PIC microcontroller.

To interface analog input to PIC
microcontroller.