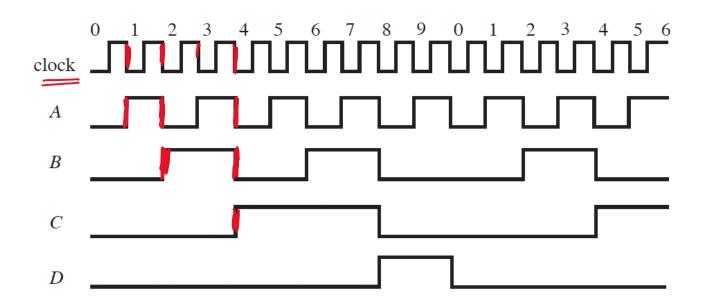
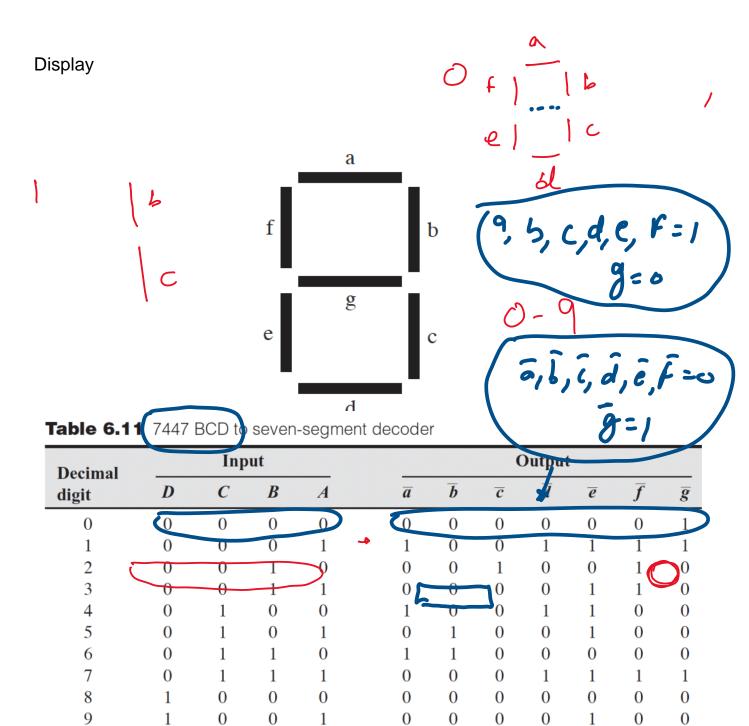


$$0-1 - 101P 2^{1}$$
 $0-3 - 201P 2^{2}$
 $0-7 - 301P 2^{3}$
 $0-15 - 401P 2^{4}$

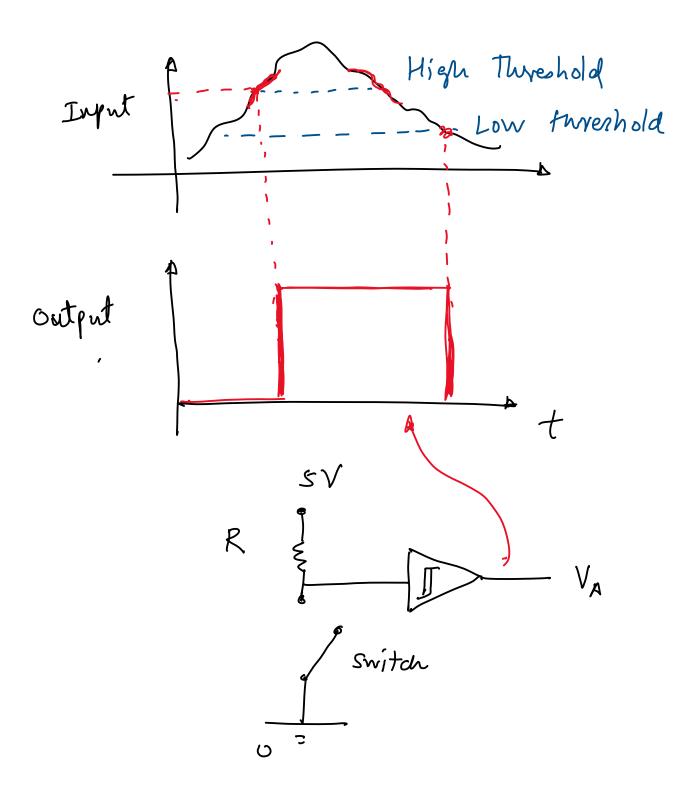
Table 6.10 7490 decade counter BCD coding

Decimal Count		BCD O			
	D	С	В	\overline{A}	
<u> </u>	0	0	0	0	
1	0	0	0	1	2 A 1 a
2	0	0	1	0	2+2 =2+2
3	0	0	1	1	2 + 2 = 2 + 2 = 3
4	0	1	0	0	
5	0	1	0	1	
6	0	1	1	0	
7	0	1	1	1	
8	1	0	0	0	
9	1	0	0	1	
0	0	0	0	0	



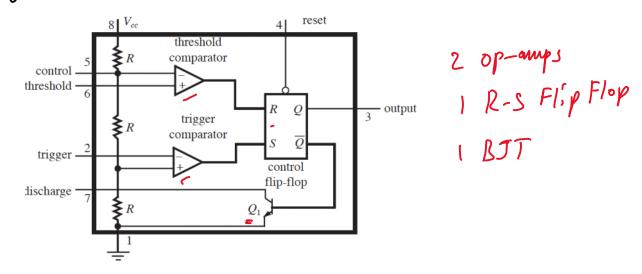


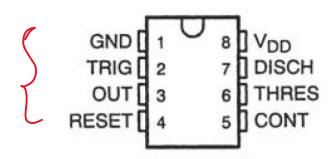
Schmitt Trigger Used for switch debouncing open sviten this debouncing Scmitt



Used for time keeping like a stopwatch.

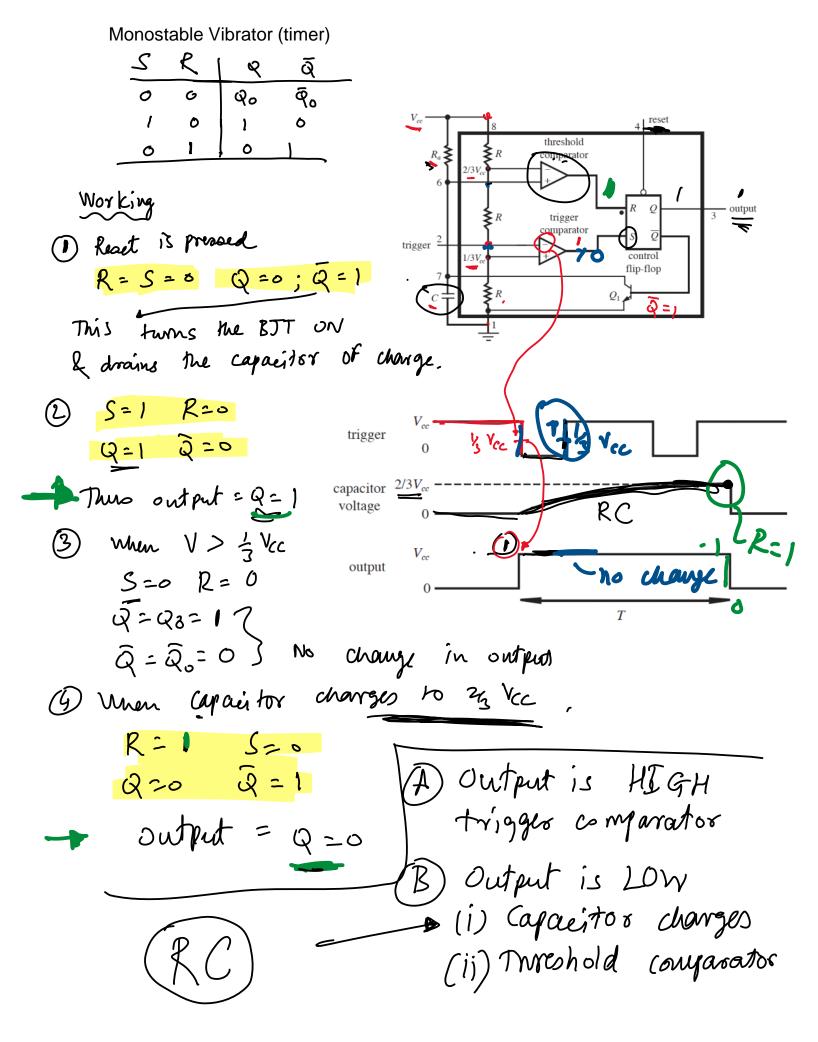
Applications: bounce tree switches, cascaded timers, frequency dividers, oscillators, LED flashes.



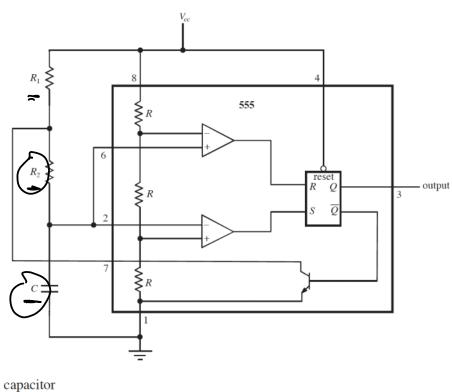


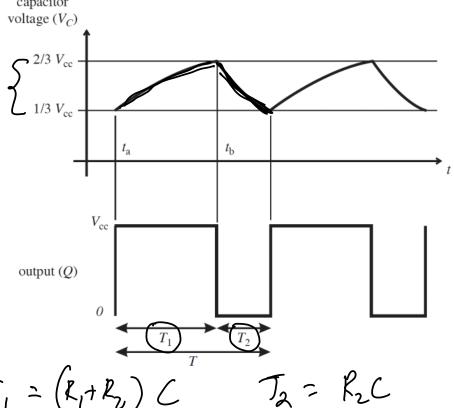
2 modes of operation

- 1) Monostable vibrator
- (2) Astable vibrator.



(i) Capacitos charges
(ii) Threshold comparatos





-19