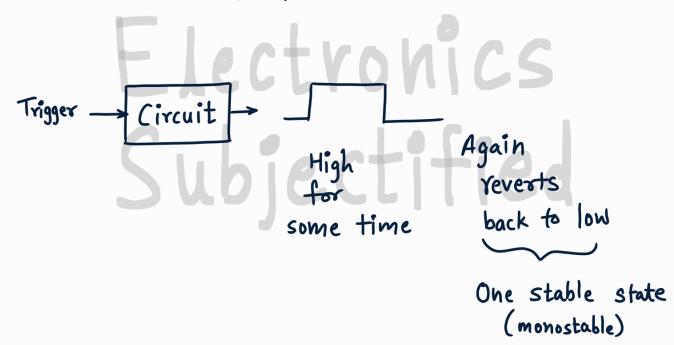
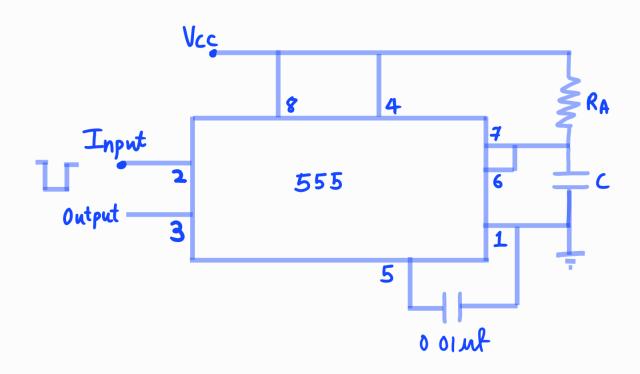
Monostable Multivibrator Using 555

Lone shot multivibrator

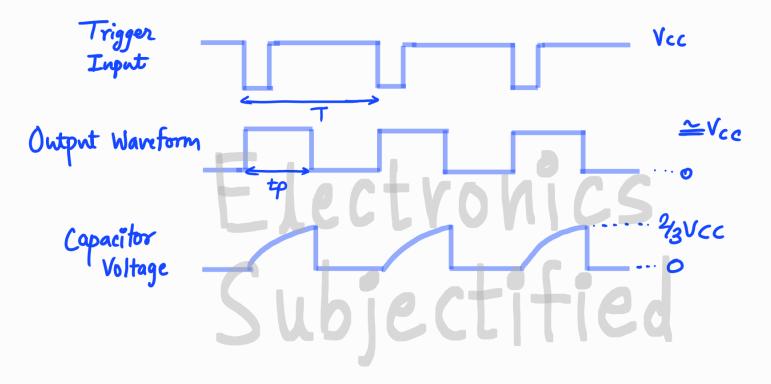
Needs external trigger pulse for output = 1 (High)

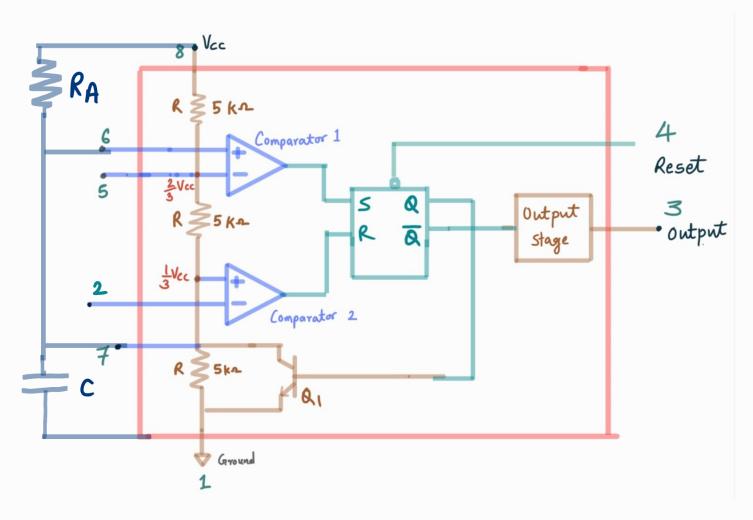


Circuit Diagram



Waveforms





Working

- · Initially when the circuit is in stable state Olp is low - Transistor is on Capacitor is shorted out to ground
 - After negative trigger pulse to pin 2

Vtr < \frac{1}{3} Vcc → Op of comparator 2 = High Ff reset Q = 0.9 = 1• Transistor off - Open Circuit

Capacitor C starts charging towards Vcc through RA LICEYONICS

• When $V_c = \frac{2}{3}V_{cc}$ $V_c > \frac{2}{3} V_{cc} \rightarrow O/p$ of comparator 1 = HighO/p of circuit = Low (Q)

FF set Q=1, $\overline{Q}=0$

Transistor is ON -> C discharges through RA Output of circuit remains low till the trigger is applied again

HIGH

Output remains