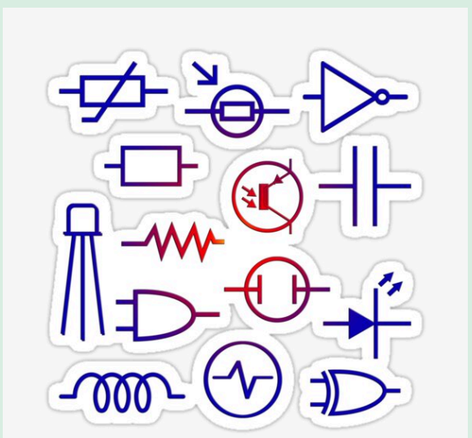
ABSTRACT:

The "Seven Segment Counter Circuit" uses a 555 timer to generate pulses and a 4026 IC to count and display numbers 0–9 on a seven-segment display. It’s ideal for simple digital counting applications.

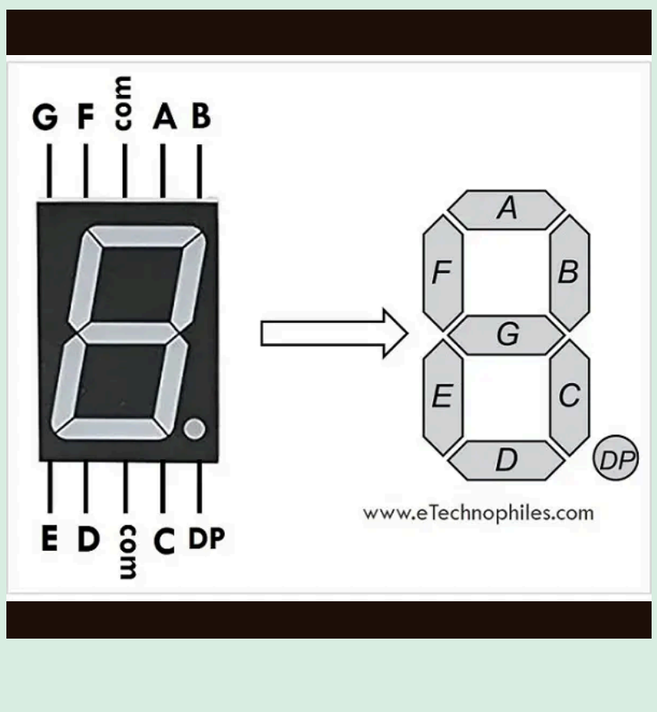
SEVEN SEGMENT COUNTER CIRCUIT

Components:

1] 55 IC
2] 4026 IC
3] 220 ohm
4] 1K ohm
5] 7 segment display
6] LED
7] 10µF Capacitor
8] Connecting Wires
9] Potentiometer



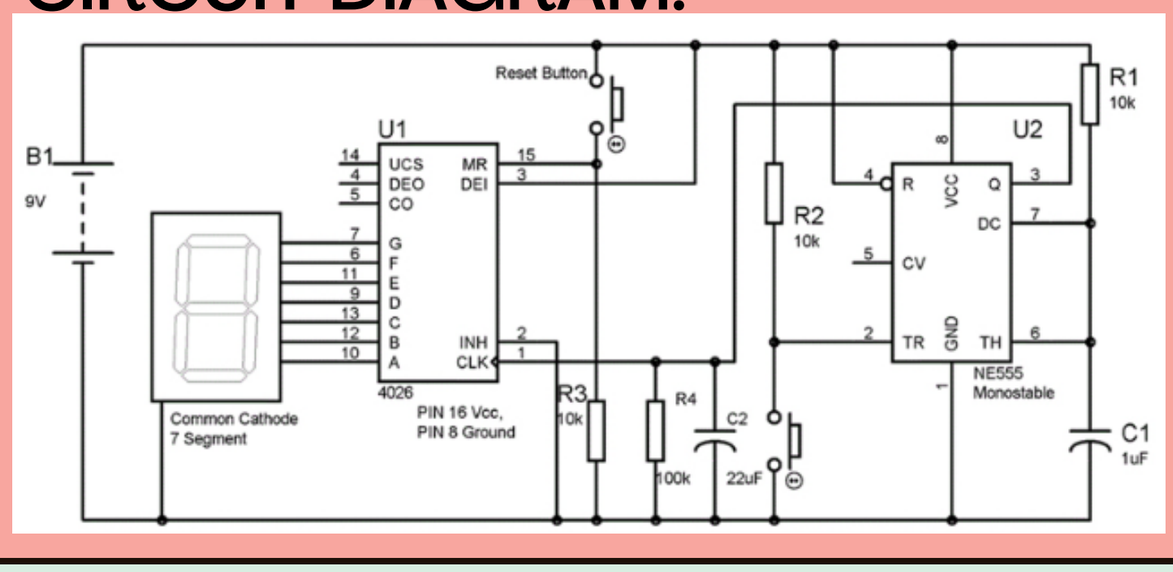
Applications of the Seven Segment Counter Circuit using 555 Timer and 4026 IC:
Digital Counters: Used in applications requiring counting items, events, or time intervals.
Timers: Can be used in countdown or count-up timers for various tasks.
Scoreboards: Suitable for displaying scores in games or competitions.
Frequency Counters: Used in frequency measurement applications.
Educational Tools: Helps students learn about digital electronics, counting circuits, and display interfacing.



WORKING PRINCIPLE

The circuit operates by using a 555 timer to generate clock pulses, which are sent to the 4026 IC for counting. The 4026 then drives a seven-segment display to show numbers 0–9, with pulse frequency adjustable for counting speed.

CIRCUIT DIAGRAM:



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