

## LED Chaser circuit using CD4017 and NE555

NE555 has been configured in astable mode and gives clock pulses at a set frequency to CD4017. Ten 5mm LEDs are connected to output pins of CD4017 and for each pulse from NE555, the CD4017 decade counter switches on its output pins to turn on the LEDs.

The NE555 timer has been configured as a multivibrator using R2, R1, VR1.

Adjust VR1 to adjust speed of chasing speed of the LEDs.

This project is suitable for electronics beginners who want to learn soldering and assembling electronic kits.

### The kit package includes the following components:

- 1 x Bare PCB with silkscreen labels
- 1 x CD4017
- 1 x NE555 timer
- 1 x DIL socket for CD4017
- 1 x DIL socket for NE555 timer
- 1 x 47K Ohm resistor (We will send 4 color code resistor)
- 1 x 2.2K Ohm resistor (We will send 4 color code resistor)
- 10 x 470 Ohm resistors for LEDs (The assembly tutorial shows 1.2K, we have found that 470 Ohm resistors are suitable)
- 1 x VR1 (50K max)- variable resistor
- 10 x 5mm RED LED
- 1 x 1 $\mu$ F electrolytic capacitor
- 1 x 0.1 $\mu$ F capacitor- Code 104
- 1 x JST connector

