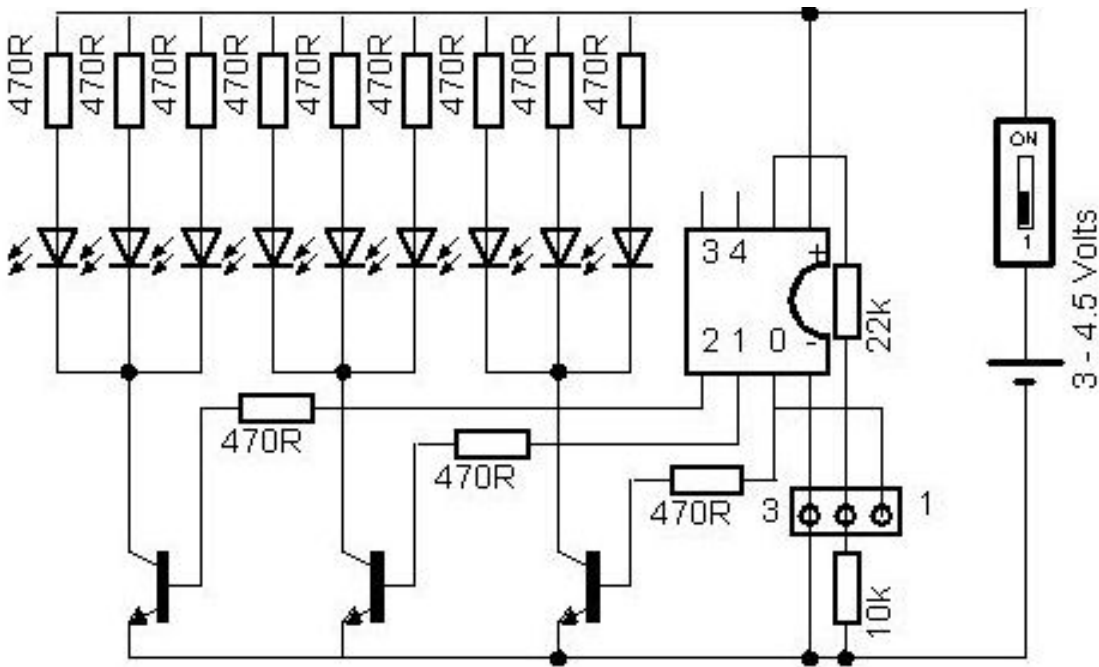


## Multi LED Transistor Drive



**Loopa:**

**Switch on 0**

**wait 1**

**switch off 0**

**pause 1000**

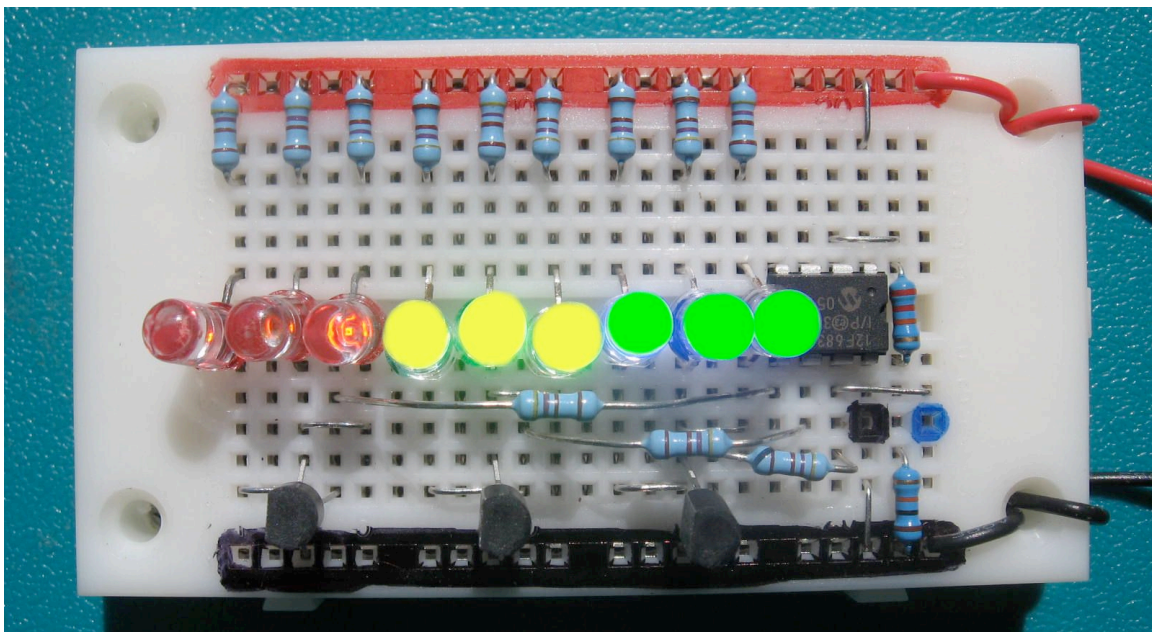
**goto loopa**

*'Make pin 0 High to turn on the transistor*

*'Keep pin 0 high for 1 second*

*'Make pin 0 Low to turn on the transistor*

*'Keep pin 0 high for 1 second*



- Refer to Help Section PICAXE Manual I and III sections on Standard Interfacing Circuits for more circuits, ideas and programming tips
- The above circuit could be the basis of a traffic light controller.
- Pin 4 could also be used to give a fourth phase
- Many LED's can be driven from an BC337 (800mA) NPN transistor
- Transistor base current with 5 volts:  $5 - 2 = 3 \text{ volts} / 470 = 6\text{mA Ib}$

- Each LED current = approx 5 volts – 2 volts across LED = 3 volts / 100 = 30mA