2 Digit Counter:
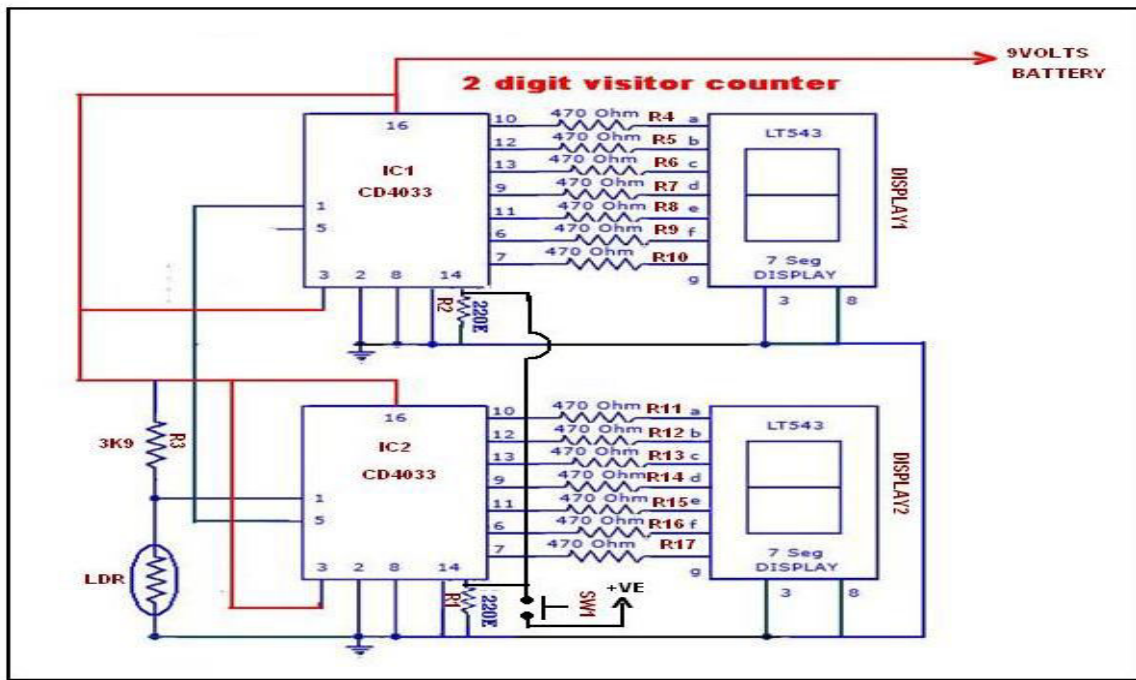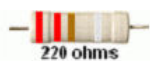

This is a display driver circuit driving the display with a stage Johnson decayed counter (CD 4033 B or CD 4026 B).The IC has counter and decoder in one package, it converts the Johnson code into seven segment decoder output to drive a common cathode display (LT 543).The display shows that the counts in the form of numerical display. The circuit is powered with a 9volt battery. The IC counts continuously up to 9 on every high going clock input pulse and the 10th pulse will display a '0' again, carrying a carry pulse for the 2nd digit. The 2nd 4033 can be cascaded to count up to '99' with every carry outputs at pin no-5 of CD 4033 after 9 pulses. The clock input pin-1 is connected to a LDR based light sense time resistor network to get a clock pulse when the light is interrupted. This counter can be used for counting the moving visitors or objects passing through the LDR interruption.
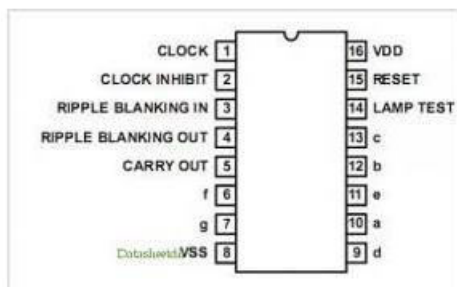
Components: R1 & R2-220E, R3-3k9, R4 to R17-470E, Display-LT543 Common Cathode display, LDR, IC! & IC2- CD4033, 9volt Battery, Snapper.