

Digital Clock Circuit Using IC 555 and IC 4026

Done by

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Components required:

1. IC 4026, 4017, 7408, 555
2. Resistors – 220 Ω , 10 k Ω ,
3. Diode – 1N4007
4. LED's
5. Seven segment displays – 4
6. Push buttons
7. Capacitor – 10uF
8. Potentiometer – 100k

Step-1:

Make the connections as shown in circuit 1.

Connect the 4 seven segment displays to the 4 ICs - 4026

| Display number | Function | Connection |
|----------------|----------------------|------------|
| 1 | Hours – tens place | IC-1 |
| 2 | Hours – ones place | IC-2 |
| 3 | Minutes – tens place | IC-3 |
| 4 | Minutes – ones place | IC-4 |

Step-2:

Make the connections as shown in circuit 2 to form the timing circuit that produces 1 pulse/minute.