

1) IC 74173: Quad D-type FFs with positive-edge trigger and 3-state outputs. 16-pin DIP: 4D's, 4B's, OE, OE2, IE, IE, CP, MR, Vc, GND when IE, IE2 = '0', data on Dips get toaded into register with F (tow-to-ligh) transition on CP ilp. MR: (asynchronous active high elear input). OE, OE; active low output enable. If either one of OE, or OE2 = High, data at Q olps: tri-stated. Only if OE1 = OE2 = '0'.

register data are available et Q olps.

2) RAMIK: 210=1024 locations (words), each having 8 tits. However, for our tresent experiment, he require least significant four bits (Io3, Io2, Io1, Io0). So, connect IO3 \to Q3, IO2 \to Q2, IO1 \to Q1, IO0 \to Q0 of Q0|ps IO1, IO0). So, connect IO3 \to Q3, IO2 \to Q2, IO1 \to Q1, IO0 \to Q0 of Q0|ps IO1, IO0). So, connected to strobe(5) ilp of ASCII Keypad through non-inverting CP (about pulse): connected to strobe(5) ilp of ASCII Keypad through non-inverting of the pulse of ten data are presented at Dilps) buffer CD 4010 (to provide necessary delay of all pulse after data are presented at Dilps) logic switch sw4.

3) IC 7493: 4-bit binary ripple counter (incorporates independent mod-2 (EPO, QO) and mod-8 (EPI, Q3,Q2,Q1) counters). As it is required to get access to first 8 locations of RAM, we use only the mod-8 counter. MR, MR: active Aight asymptomass reset ilps. They are made active only once at the teginning (and kept low at all other times). They are controlled by logic switch SW1.

other kines). They are concretely of the pulses (It) are fed to CP, ilp via logic by Pulser (clock source): While writing into RAM, manual elk pulses (It) are fed to CP, ilp via logic switch SW3, so that address A2A1A0 is incremented seven times. While reading contents of RAM, however switch SW3, so that address A2A1A0 is incremented seven times. While reading contents of RAM, however switch SW3, so that address A2A1A0 is incremented seven times. While reading contents of RAM, however free running clock (from tulser) is fed to CP, ilp of 7493. Logic switch SW2 selects between free running clock (from tulser) is fed to CP, ilp of 7493. Logic switch SW2 selects between manual clock pulses and automated (pulser) the pulses.