Addressing modes. Immediate addressing mode. MVI ACC, (FF) sperand / numi ber ACC E Direct addressing mode MOV ACC, Address of operand numony eg Mov Acc, 2500 ACC 4E 2500 4E

(3) Register addressing mode

MOV ACC, R,

RI 38

DWAP to store the number 49H into memory location 2501H. The number is entered by user.

IN PORTA

STORE 2501 H

Two nos are stored in menony locations 2500H and 2501H. WAP to add the numbers and store the result in 2502H. Memory LOAD 2500 H MOVE RISACC 2500 02 2501 01 LOAD 2501 H ADD R1 STORE 2502 H

nos are stored in memory and 9414. WAP to exchange the nos using STORE LOAD instruction only MOVE and LOAD 940 H MOVE R, ACC LOAD 941 H STORE 940 H MOVE ACC, R, STORE 941H

Interrupts interrupt the All I/O or menony modules can normal operation of the processor. Powler User program interrupt ocquest Execute enable theck for interrupt interrupt process > fetch instruction

2 approaches to handle multiple intempts. Dusable interrupt Sender Receiver processing ignoses time critical tasks (2) Priority list is generaled t=0 - user pgm is executed t=10 - printer sends Printer

Flash drive

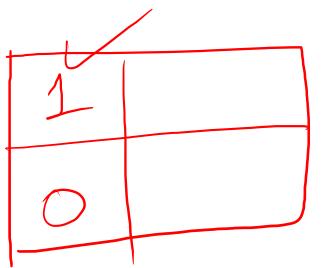
3 interrupt request communication line 5 t=15 - communicathline send IR Encreasing order of printer t = 20 - Flash drive t=25-Flash
The sends IR

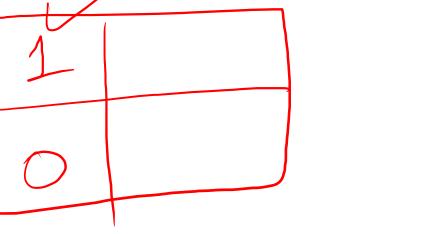
Toutine executed t=25-Comm' line
instruction is
complete.

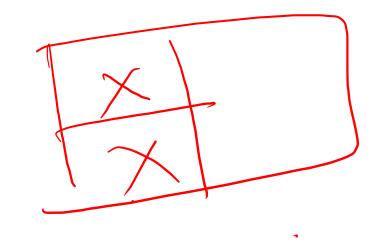
Mem-read Interrupt Seurice Routine IO/M = 0 SISO = 10 processor how to handle A short pgm which tells the interrupt. T state - one clock
period Basic Machine Cycles. (4T)Opcode fetch Stalus signals. (3T)Meniony Read 00 - opcode tetch (3T)Men. Write 10 - Read I/O Read (37)01 - Write (37)I/O Write IO/M = 1 - I/o operation - 0 - Mennong operation Varilogmultiplexer doubdow

- somt X assign X Stmb

2 : IMUX [(sel==1)

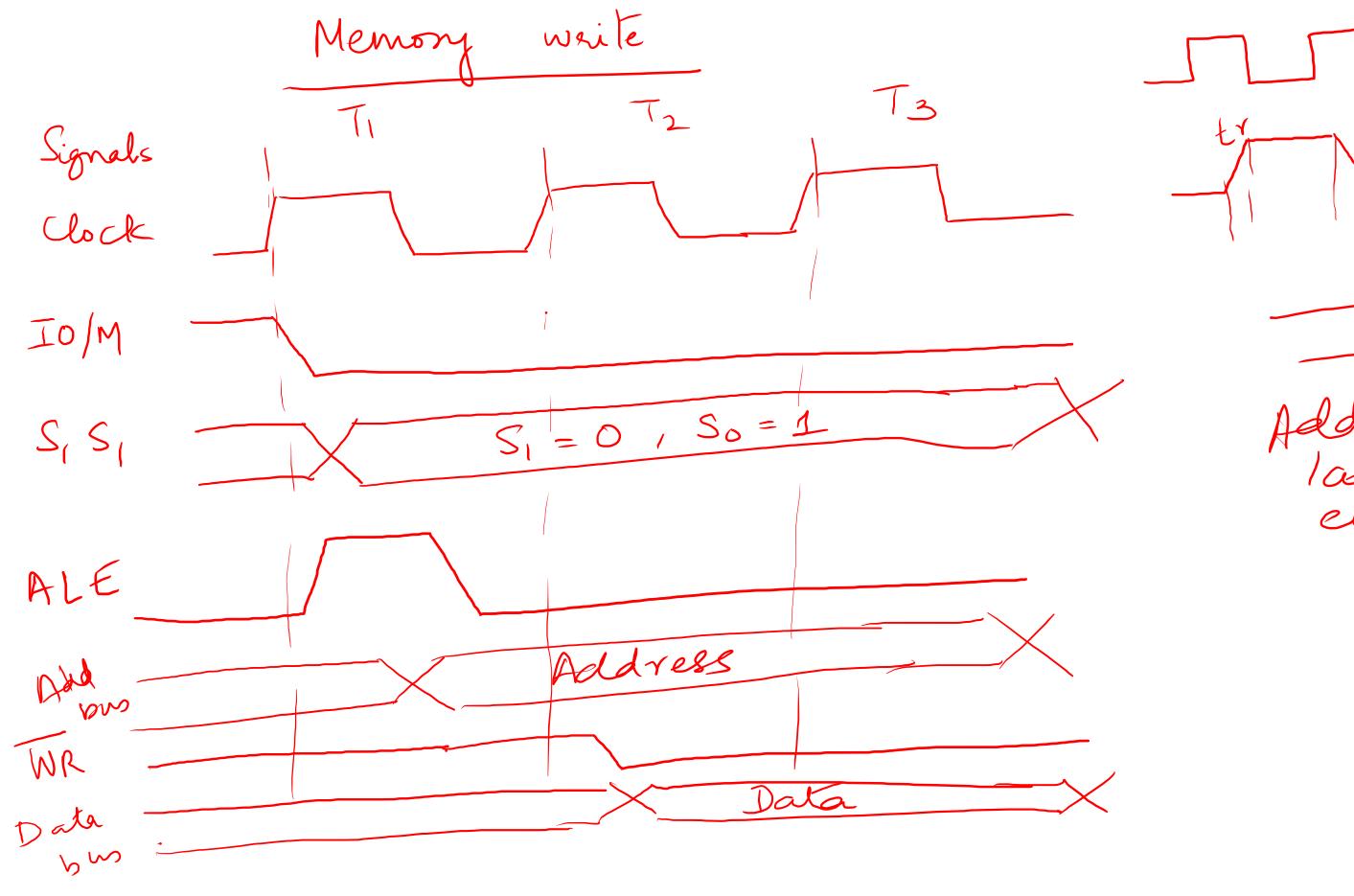






$$O \cdot O = O$$

$$0 \cdot x = 0$$



Address lately enable (ALE)