

AND AND SA MOV A, RI MOV RI, PA SET B PSW4 CLR PSW 3 MOV RIORT · Any I/O Devoe can be corrected Vec (+5v) to P2 (Port 2) - PO.0 /AD. - PO. 1/ PO P1.4 . · To, T. are used for Timer operations. PO.3 /AD3 P1.5 - PD-4 /AD4 • EA→ External Access - POS/A 05 P1.7 When we use an external -PO.6/ADE PO. 7/AD Rom, EA=1, in EA=0, M Rx0/P3.0 (it is connected to wind). 30 PSEN " - ALE / PROG T. / P3.5 Crystallographic RD / P8.6 Oscillator WR / P3.7 12.3 Frequency Specification Pin Diagram of 8051 Power on Reset (Required for Sem) Circuit is automatically restarted & when your is Tweed on.

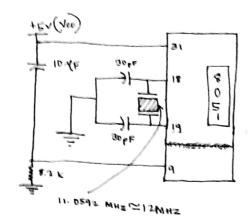
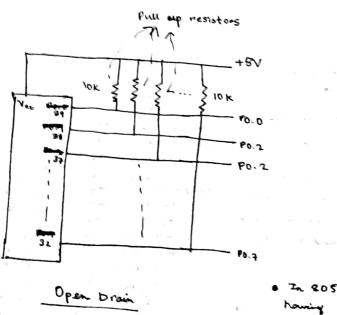


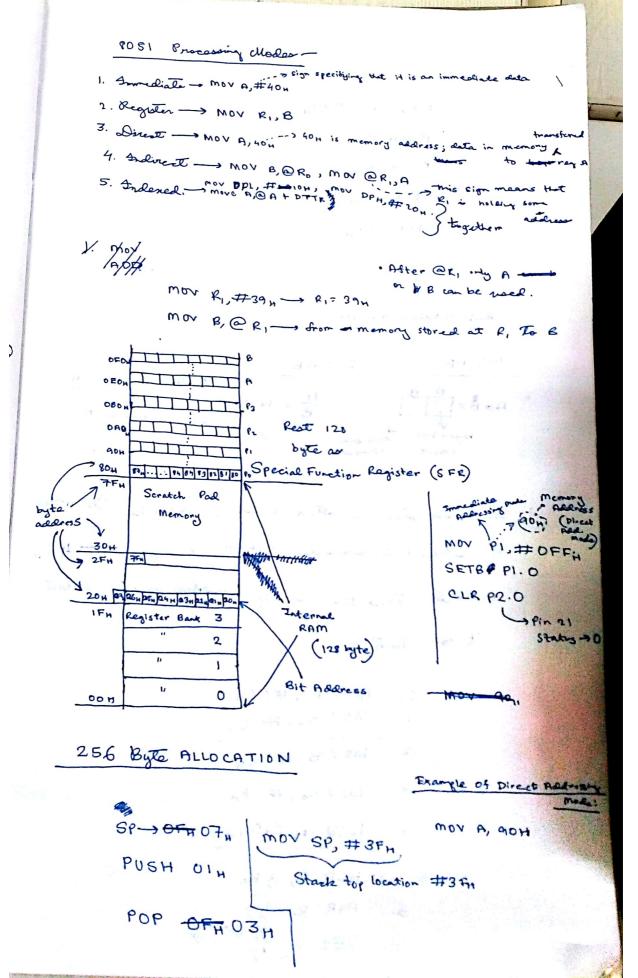
Fig: Power on RESET Growt



Pont o gull up resistor cornection

In 2051 which portrare having open drain structure. How is it solved?

KO



BCD Addition - DAA

1. In a semester a student has be subjected. The motion of student is stoned in RAM location 4017 47, brevards. Find the average marks and cartiful it on Bort 1.

I DEC O NONA

MOV SP, #3FH
PUSH 01H
PUSH 31H
POP 18H

BCD Addition - DAA

POP

MUL AB

DIV AB

DIV AB

B = A(B)

Remainder in B

higher byte lower byte

of result of negate

$$B(R)$$

Remainder in B

1. In a semester a student has 6 subjects. The moth of student is stoned in RAM location 4017 47, brevards. Find the average marks and entirely it on Bort 1.

0. MOV PI,#OOH

1. MOV R2,#OGH

2. MOV B,#OGH

3. MOV Ro, #47H & MOV RO, 17H).

4. MOV A, #OOH

5. L2: ADD A, @R.

6. INR ROLLINGRO

• 4,8 can be replaced as 8. TNZ L2 DJNZ R2, L2 9. DIV AB MOV PI, A 10. OH TI THE WOOD Timer/Counter of 8051 MOV THIT OFFH Times 1 -> THIX TLI you symmetry sons (TMODG) TCON(3) TMOD - Timer Mode Set organistic and grives of motorchards all took Timer Control Set TMOD D6 P5 P3 P2 Timer 1 Timer O o man - 110 H COMT vom Gate -> 1 -> Mean we require some horsewore triggering controlling the timen operation Means we require some software operation to trigger JOHN THE COLVE T/C -> Vsed for controlling Timer/Counter operations. 16 -> Counter -> for event counting Times

M, Mo -> Vaca for & setting the mode of timer/counter 0 0-Mode 0 (13 bit) 0 1-mode 1 (16 bit) - (Normally used) 1 0-Mode 2 (8 bit) auto reload) 1 1-mode 3 (Split mode)

(and due fire) - seine o 1 4

SET TRO

LI: ONB TEO, LI

IJ.

TFO is not high

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of 50% duty cycle of on P1.5 bit. Tiner Dis used for generation of Time delay. Calculate the frequency of soprare wave generated on P1.5.

MOV TMOD, #0,1 H 2T MOV TLO, # DOOH 2T 16 7 CPL P1.5 - Complement 17 # FFFO CALL DELAY 2T PLIMP STMP LI - Short Jump 2T

PELAY: SETB TRO IT

L2: JNB TFO, L2 16T CLR TRO IT CLR TFO IT

RET 2T

30+27

First Line is out of loop

Calculating Snequency: ←t/2t=(2×30+2)×1.085 4s = 67.27 4s : S= 1 = 0.014 MH2 (Am)

square