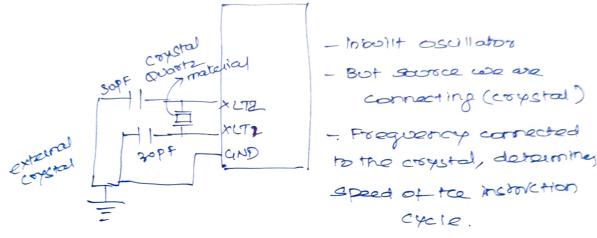
Oscillators & clock generators circust:

Alasmortion cycle - complete one instruction/

Ex: Memory cycle

Data tetch cycle opuda tetch cycle memory sead eyele

memory write cycle 9, so on



Assure, to = 6MH2 (coystal freq)
clock treq, to = ts/2 > 6/2 43MH2

Oscillators circuit starts generating pulses tor the operation.

Instriction time is based on the treequency of the extension of the operation of the Mc, we need to increase the treeq of the external crystal oscillators.

RST/Reset pin:-

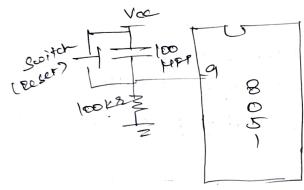
whatever the operation is alone so tas, once the Ron botton pressed, then automatically all the values in the registers are made of -> >2010.

In general, RST = 0 (default) -> GND RST = 1 (Pt pressed) -> +Vac

For 2 machine cycle, it RST=1, them you can reset of the values to som.

It we press RET botton in the Kit, then it will process the basic operation, some companies may show company details like Blos.

It ReT=1, it makes all the internal content like address bos, alota bos will make to 2000, all re registers are 2000, stack pointer (07)



conich to

080

PSEN_ program Status Enable.

[128 bytes RAM] internal memory.

It med to osed externel memory like

EAK data memory -> ?

PSEND - O ext code memoray (RON) PSEN PSEND - 1 ext data memory (RANI)

ALE/PROCY ALE - Address Latch Enable Bbit data -> 16 bit address (ADO-ADA) (A8-A15) (ADO-ADA) (A8-A15) 1 Higher Dedy addiessy add/ < most pox cohenever lam using add, nonadot order data si vice versa. Acute grades data ALE -O - Data ALE -) 1 - Address if I am copying code to internal Rom address, in that time if I five ALE (PROG) as + VCC. EA -> External Access EA = 0 (External memory) EX =1 (Wterral wereasil) TYCC ST GND -> SOPPLY FINS 20 4 I/O POTAS -> PO, PI, P2, P3 _ 8bits used too bidisectional (P/P, 017) -> Alternate fronctions not using P3 => Interrupt 2 Internal P3.0-> RXD-> Received means times P3.1-) TXD -> Tocansmittel PORIL - Interior O (Ext) P3.3 -> INTI (Ext) Interupt/ $P3.4 \rightarrow Timeromorphis$ P35 -> Timex1 WR/ P3.6 -> monte line (B) P3.7 -> Read line (RD)

architecture Internal step of mate Botte A straing to dotte Address of 17 rex + hstalenon # row of proy may seen incrementing (4(99)) 4999 Pointa (1661F) paskau Increment/ alec s coment te menon addras 101/01/ lobentity R Cocinta Jack . PON/ERON Woll Memory herrory [52] - Jean formed exrerned - May ed 86it temposas, Doine Stack Secur Post 1 lates Special pondion · P3 > 1 (D) sectus. - User Cornot M PORT3 Later (A8-A)6 PORT3 porter (aeywas) TENP JOSEPHY S 17 S 198 48H 10 0-45 0 48B NO " Posto latch ALC Later Dorder BRI 4198 PORT 1198 MSA JEMP2 carrydate Draw (AMP) . Porters. betwee serains propostal propostal (D) ACC) (stoses data Accomolators K AN Tresoppion Peristy Registed PUSTAN SSAPPECS RAM (constant) PSST ← ACE / PROYE PSER X Ent Stay