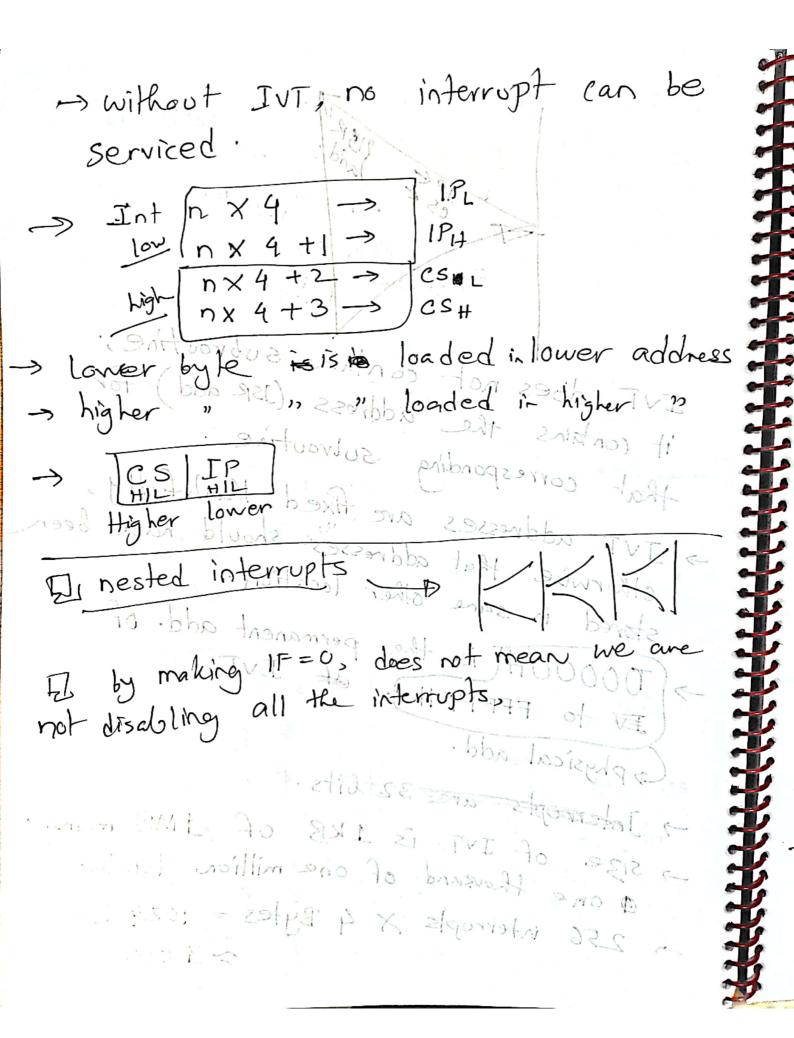
towns place. Interrupts IVI contains all the IsR addresses IVT is in memory? ISRs are also in memory -> MP gets an interrupt, want to got to ISRs. i.e. memory. -> But 256 interrupts are scattered In the memory (all over \$ 1 MB memory) (10 lahh memory locations) -> So. Whenever up gets an interrupt, it goes to memory twice. -> 1st. it goes to memory just to obtain ISR address. from JUT -> once, it gets an ISR address, it will food that address into IPS es -> So, IVT basically vectors the up to go to the actually ISR address corresponding to the Interrupts.

interrupt can be TUI tooling remoli bebook contains subroutine; IVI does not contain subroutine, that corresponding subvoutine. > IVT addresses are fixed thanhfully, otherwise that addresses should have been stored in some other location of botson D > (00000H is the permanent add. of TO TO FFFFFEHOW IN CONTROL OF TO CONTROL OF THE PORT O aphysical add. -) Interrupts are 32 lits. -> size of IVT is 1kB of 1MB memory one thousand of one million location. -> 256 interrupts × 4 Bytes = 1024 kB



next instruction intersegment, sincer, interrupt does not associated with your normal operation. i.e. playing games -> Software interrupts are given by the programmers. by writting the instruction -> chan H/w interrupts given by the circuits or device !! of many can be any number from 0 to 255.

-> via s/w interrupts. we are invoking the ISR to Up. -> if a elevice sends a signal, & sends it as an it interrupt what isticalled N/W interropts. -> S/W INT = expected (whenever I H/w = unexperted -> disabling calls. -> s/w & Int are not possible to be disabled. ire 2011/wintempts1. out of 256. associated with your Software interrupts are HIMMY HATE OF BOHING Pd NMI example: when mother over heatel.

-> airbag is an example of NM1. -> only NM cannot be disabled among the hardware in low of day interrupts cannot be disabled, for carriet is airlag notons of 110 only
INTR can be disabled is so IN ISR cannot be disturbed. sided, sil => TF -is used to perform single stepping -, you go line by line to indebug at program., sike pressing F7 in eine C programming. => so, during debugging a prog. if an interrupt occurs, TF28 IF should le restorel to its original valve. since, I don't want up to interfer with my debbygging.

-> before clearing IF & TF, We need to PUSHF i.e push the whole frag into stack no > So, after servicing interrupts, all the contents of frags will abelow restored to its original Valves POPF - So, the total scenario CS H my dephygoin

PUSH F. TENOHONG Call FAILIS He difference care about trags. -> the command at the end 2906

15 IREIT -> Interrupt return. Ret is puritien supporting ordinary function. JIRET 13 written at the end of every ISR.

call function? RET is used call Pop Cr. 10 Ret we do not clear flag or push/pop flags for ordinary subroutine Henre, we don't use IRET this lis the difference bet RET 8 IRET. RET does not care about fings. By clearing IF & JF, IF disables INTR X> single stepping we do disable inte, so that we can entertain one ISR at a time.