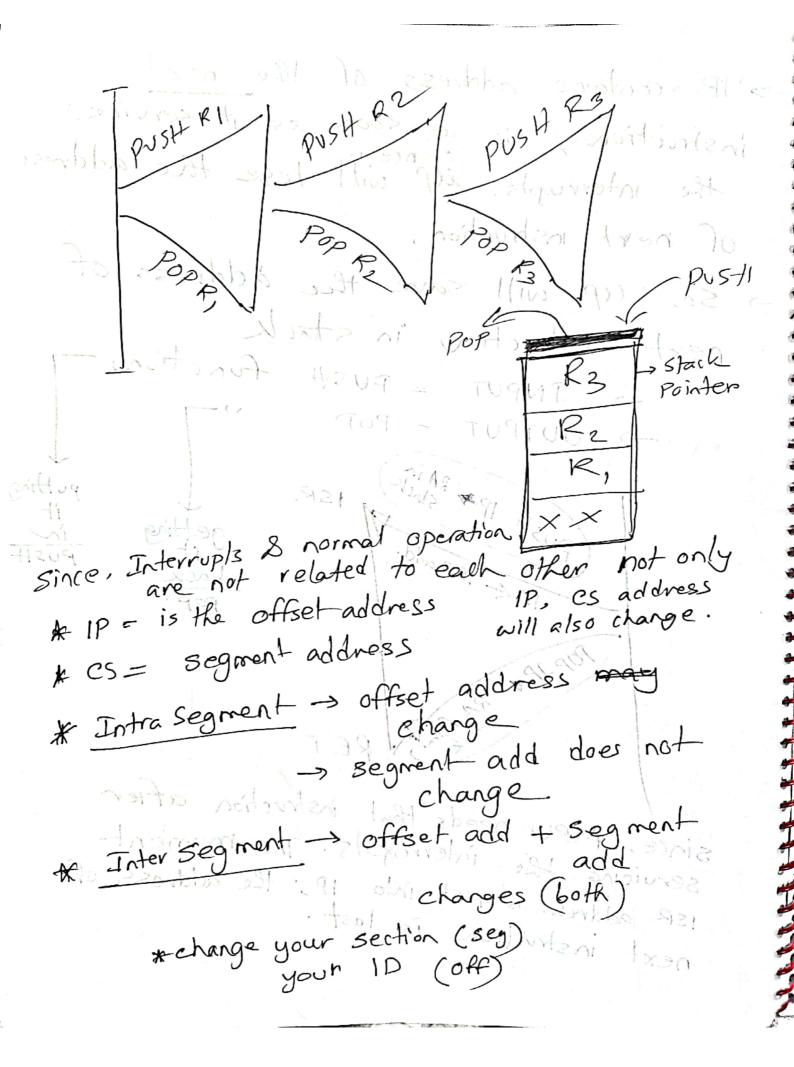
DI 8086 Interrupts -> there are 256 Interrupts. -> every activity be in MPU 13 unition & initiated by interrupt. -> What is int ? A: An interrupt is a condition that makes the MPU execute ISR: Interrupt Service Routine. - MP execute instruction seaventially by incrementing IP (Instruction pointer) Cs-> seg add 75.P: specially written program to service the intempts. goma interrop

-> Remember After finishing servicing the interrupts MP comes to the next instruction, continue. video watching -> Suppose incoming suppose call received initiated by to It for both Hang Up deventing of A U exercte Isre Interropt TPK ISRADO IPR Retadd. exercitiza Viruction servertially IP (Instruction printer) Return address is not fixed. It is flexible, since, it is not aknown when + occur: gonna interrop

IP contains address of the next instruction; so as soon as it service the interrupts, up will lose the address of next instruction, - so, up will save the address of next instruction. in stack JNPUT = PUSH Function -> OUTPUT = POP PUSH IP RAITE pu Hing sequent addre since. Mpu needs that instruction after servicing the interropots. The moment ISR address is put into IP; the address of next instruction is lost

(Sto) OI NOW



Number of should be equal to PusH num ber of POPS BI INT 2 = 8 where ESR JNT 2 XY address vis store you will obtain from there 4 locations 12345 A Will go to memory 8 run the ISR. 1-92

1) When MP gets an interrupt INT N it will 1st store the peturn Add Interasegment PUSH CS 3 RA PUSH IP) in stack b(2) It will then search the ISR address from IVT. It is in the memory of IV Table. where it is ? High! lower. cs: lP higher? 12/34 es we push es 1st we push IP 2nd. CSL SP-2

size of IVT is 1 KB 256 x 4 = 1024 Q. what does it contain (IVT)? At # Segment 8 offset address of every interrupts. for every interrupts there 4 locations is 2 pastack-clear cs instack push is 7 pastack-1P = [n*4+1] [n*4+2]
es = [n*4+1] [n*4+2] INTN