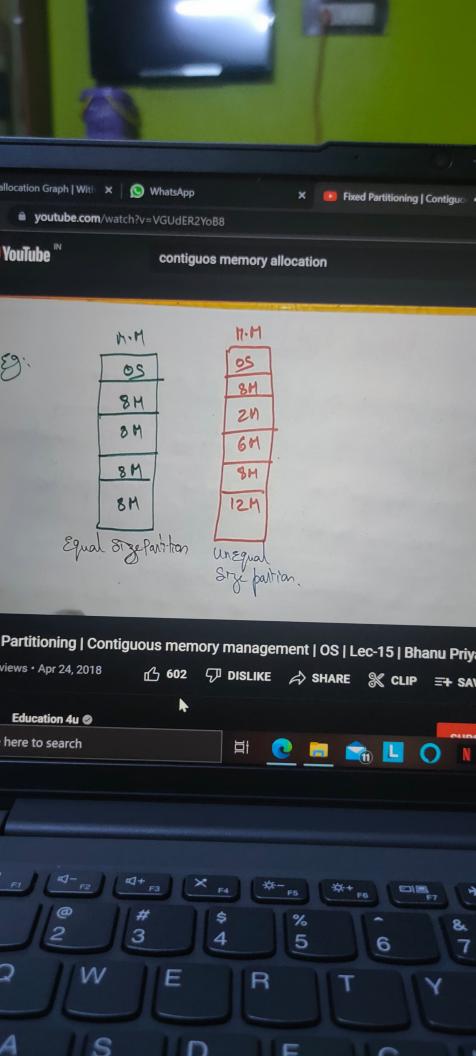
tixed touristioning Multiprogramming > M.M Is divided into not of Static bountions at syx Contiguous Non Contiguo generation time. \$ Equal Size postition Thredfortier dynamic partition # un Equal size partion. and In efficient Simple to Amplement \* Max mo of active process & little 0s overhead



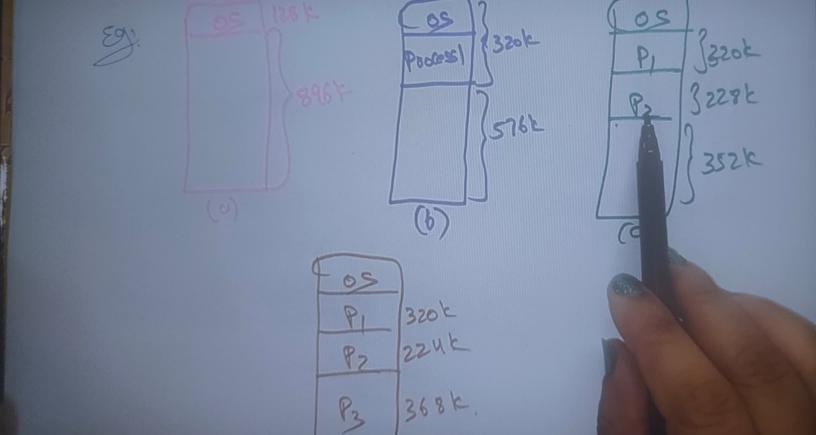
05 New

Dynamic Partitioning Positions are created dynamically.

\*\* Each process is loaded into a position of exactly the star same size of that process

Partitions are created dynamically. poulition of exactly the star same size of Placement Algorithm + Best 11 + first hole that is big Enough is allocated to pag.

Best 11 + Smallest hole that is big Enough is allocated to pag largest hole that is big shough is allow h



tragmentation A processer are loaded 2 removed from memory the fee memory space is Dooken into little pieces. => After Some times that processes annot te allocated to memory bls of small size 2 menory blk remains unused

Internal fragmentation External fragmentation >> Memory block axigned to Total memory space is Enough Access is bigger: some portran satisfy a request or reside of memory is left unused as it pocess mit, but it is not Cannot be used by another ntiquous, so it cannot be used P1 = 9M P2=64. IM. B=3 m.

Fragmented Memory before compaction

Memory After Compaction. => External pagmentation can be seduced by compaction of Shuffle free memory together one langeflock => Internal pagmentation can be reduced by effectively assignman the smallest partition but large Enough for the process A comp can add more memory then the amount physically as talled on sys this extra memory alled virtual memory.

physically ms raise called virtual Memory. 64kb 8 km # It is a memory management technique in which knocess add space is Booken mto blocks of same size called peging.

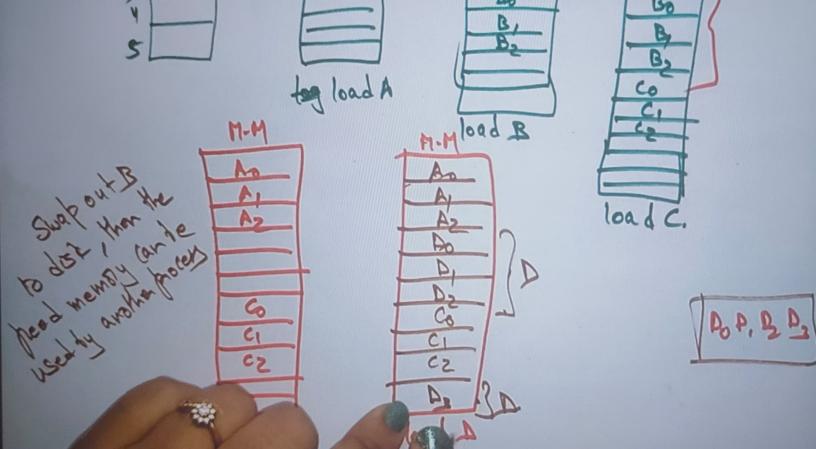
(power of &) The Size of pocess can be measured in no: of pages 11/4 M.M is divided into small fined blocks (physical of memory Called parmers.

213e of name of page External pagmentation we can avoid Process P [Pageo] ist 100 bytes and loo bytes P - P9 4 80 Magel 389 100 PAG FI [Page 2] P- Page 0 F2 P- Page 2 E3 FY Pagen PN/.

Addration translation Page add is logical add 2 represented by. Togral add = Pg no + page offset plane add is called physical add. & represent Thypical add = pame no + page offset

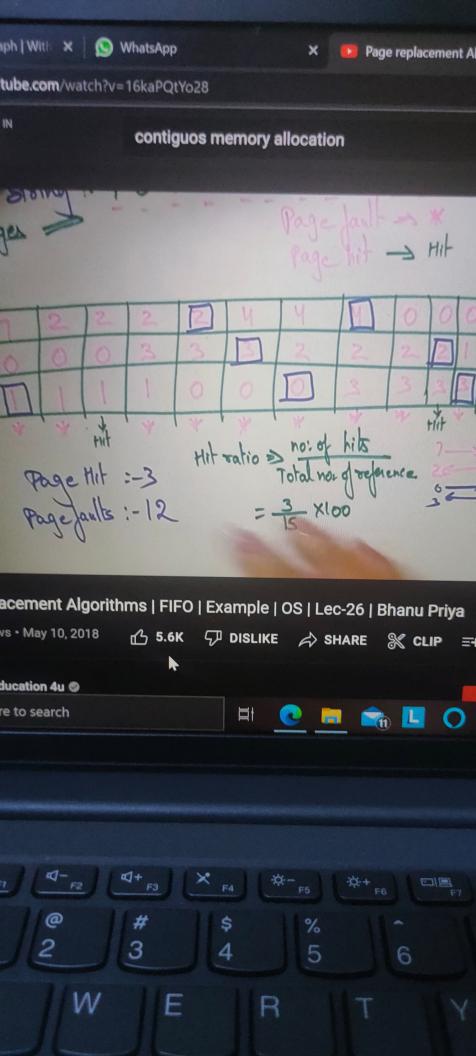
logical add - 1 Jim , I J plane add is called physical add. & represent physical add = pameno + page offset page map table.

Page # hame # Page # 28 offset pame # 428 20



3 optimal OFIFO page seplacement Algorithm 1 \* replace the pages that has been in memory the longest time. Reference Storing 1. 70

Proper - 70



LRU (Least Recently Used) 701203042361312 Proge Hit = 3 fault = 12

Page eplacement Algorithm SOUTH STREET paence