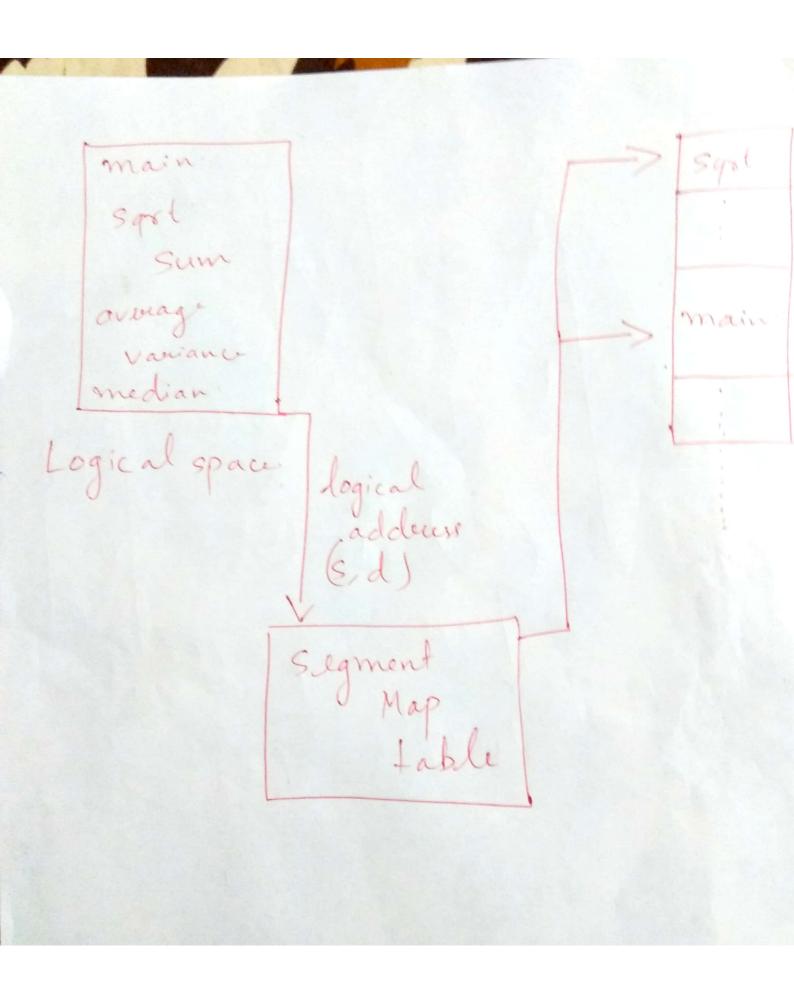
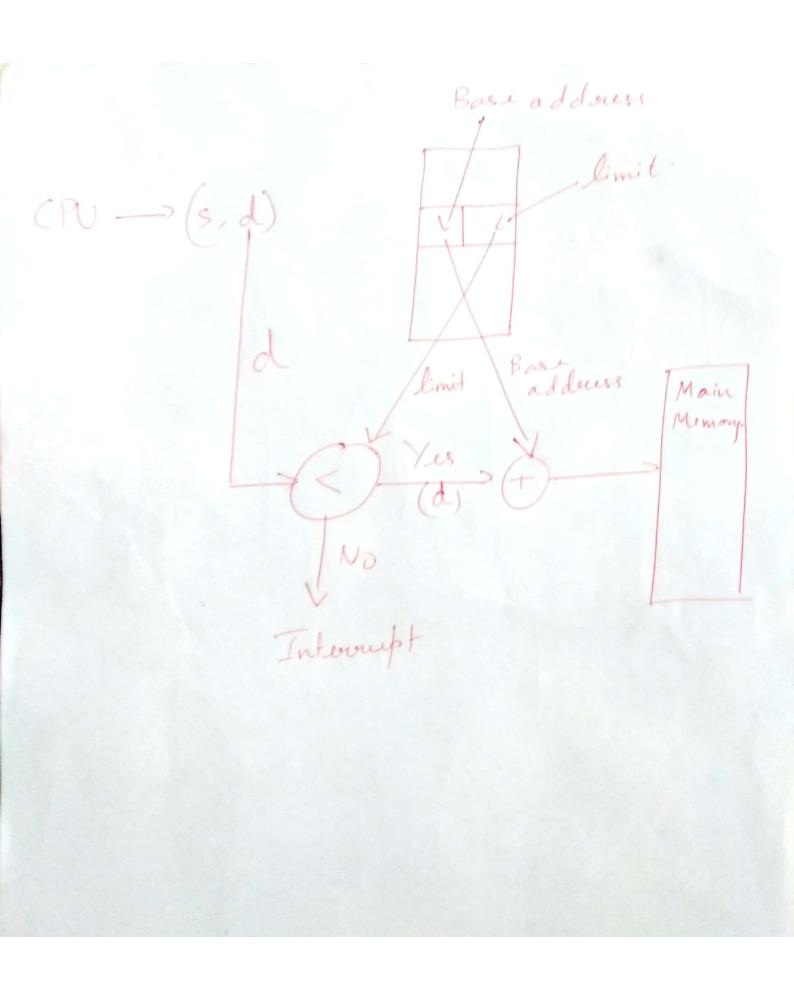
Segmented Memory Mgmt Paging has one disadvantage It dutroys the logical modularty of a program. This is an issue when main memory epace is small (to be covered compreheneively in Virtual Memory). To avoid bueaking modulacity, we follow the segmented memory mgnt technique.

Modular program int Mam () 898+ () sum () All these average () Polifferent modules. Variance () median () We break the logical space into different parktions based on modules in the program. lets call all these partitions as segments.





Paged-Segmented Memory Magnit -> Mixture of regeneraled and paged memory management. Sigment Table > d < limit -> Limit PMT Base. Interoupt PMT of a segment Main Memory. Note: In PSM, the offset (d) is use to access the page number of the sigment and the offset in the page.

We are, in this case, using both the ideas of segmentation and paging.

Demand Paging. -> Originally in all pour ious memory management technique all pages/segments must be available in the memory. -> However, a program could be sometimes larger than the main memory. In that case, we use demand paging. Core Idea: Load only pre page and load other pages when they are needed.

Demand paging is also called as Virtual memory management. FMT Frand! M. M. Logical space In demand paging, we also add one additional field (Interrupt bit) If IB: O (page is in memory) IB: I (page is not memory, it should be brought in)

The following flow chart eummanizes the entire idea (It is taken from IIT Kgp). (Stant) Start execution & address generation by CPU Next (P,d). Next Page Ves S Continue.

in Memory execution No (Hou, we use IB) Is there a No Select a page for suplacement in memory the process (1)

Scanned with CamScanner

No Check if the page Get the Haved disk address of the page to be brought in the writenew page to disk. Read page and adjust PMT Boing page into memory. go to start ** This is done via the File Map table. This table contains the cinfo on pages and their addresses in the secondary

Now, in the pervious flow, we explaced pages.

Question: How to decide which page should suplaced?

Three dechniques aux used here:

D'First in first out (page that was brought eachier must go).

Dépinal: Remove page that will be deferend very late

Deleast occently used lechnique: Remove pages that were accessed secently.