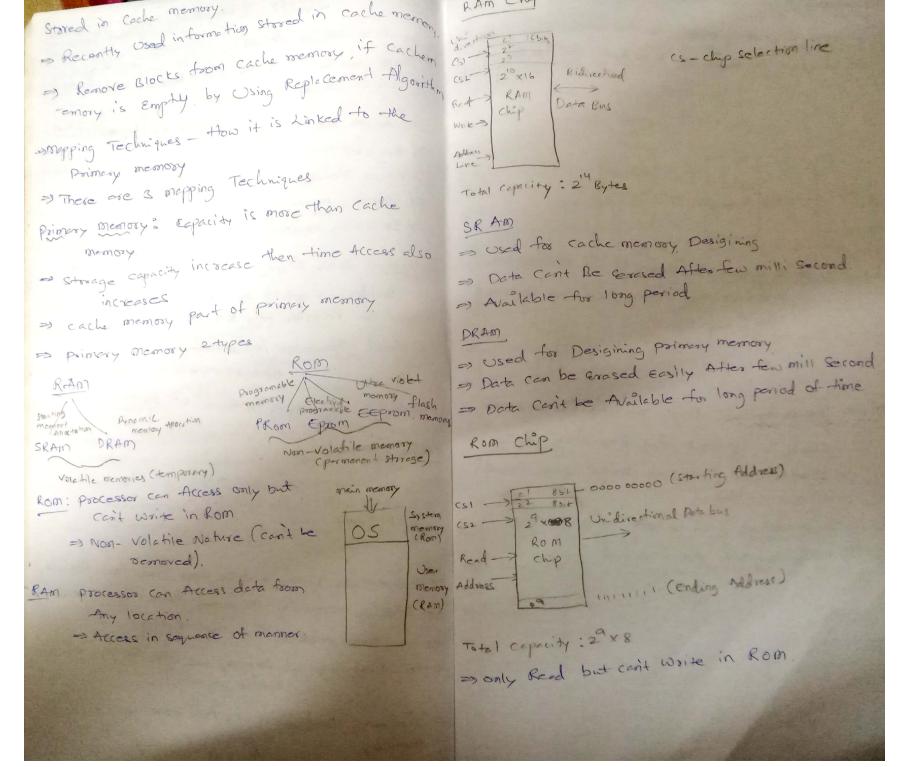
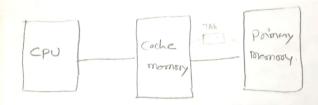
Unit-V: (x emory and is a storing device. on These are different types of onemory and files which memory can store memories are (Memory Hierarchy) Representation is Register Storage capacity ii) cache Memory increase from III) primary memory) top-Rottom (Increased order) iv) Secondary memory Register; Less Storage capacity in terms of KB's Buffer -> set of Register. Types of Register An, Bn, Cn, Da --- 16 bits Entend Accumulate Base Register ane CAR, EBR, ERR . - - 32 bit capacity => storage capacity is in toms of Bytes. cache memory; 12- KB'S >> To Across Data it take more time than Register -> Storage capacity increases from top - nottom time increase from top- Rotton => +500 Designing this memory we use SRAM (starting Random memory) 3) Recently used Data is Available in Cache westory. Instructions Recently Used Linchons are



Secondary Memory: Storage capter of the Access Data time Access increases to Access Data time Access increases to Access Data



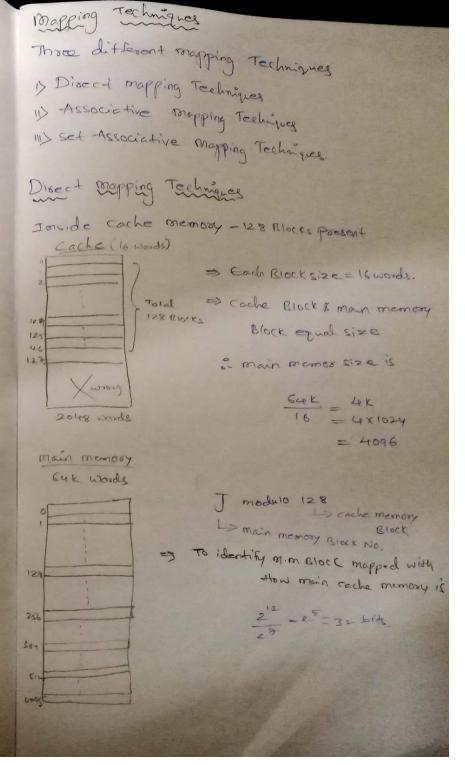
Locality of reference: In some of the memory block
Some of the Instructions are repeated
like (Loop Block). [100]

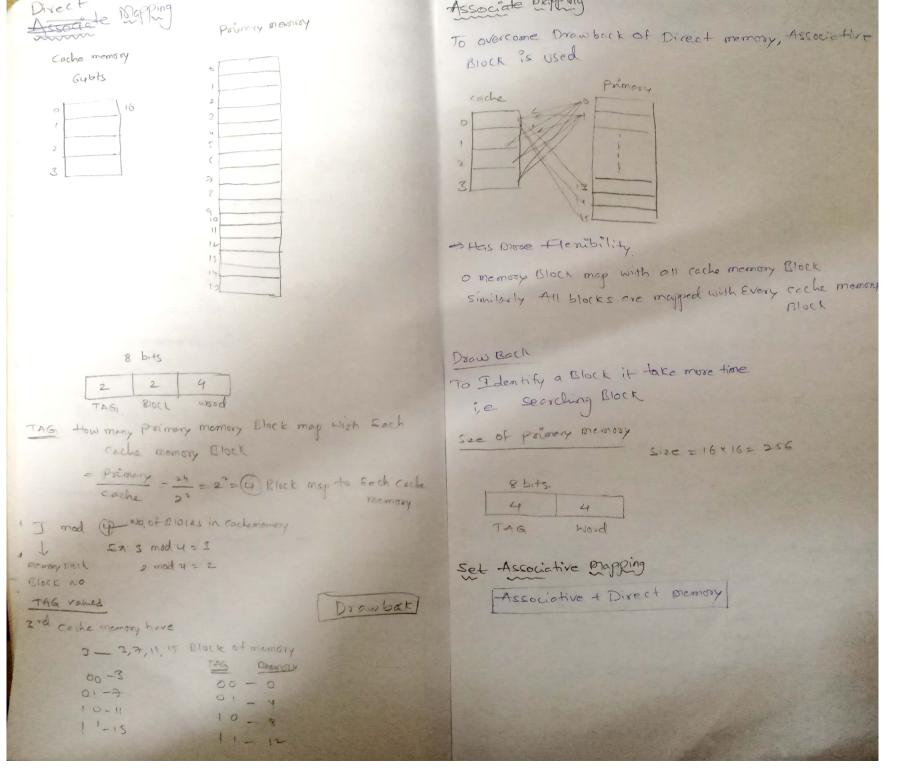
Write Through method: Both memory (cache & rowin)

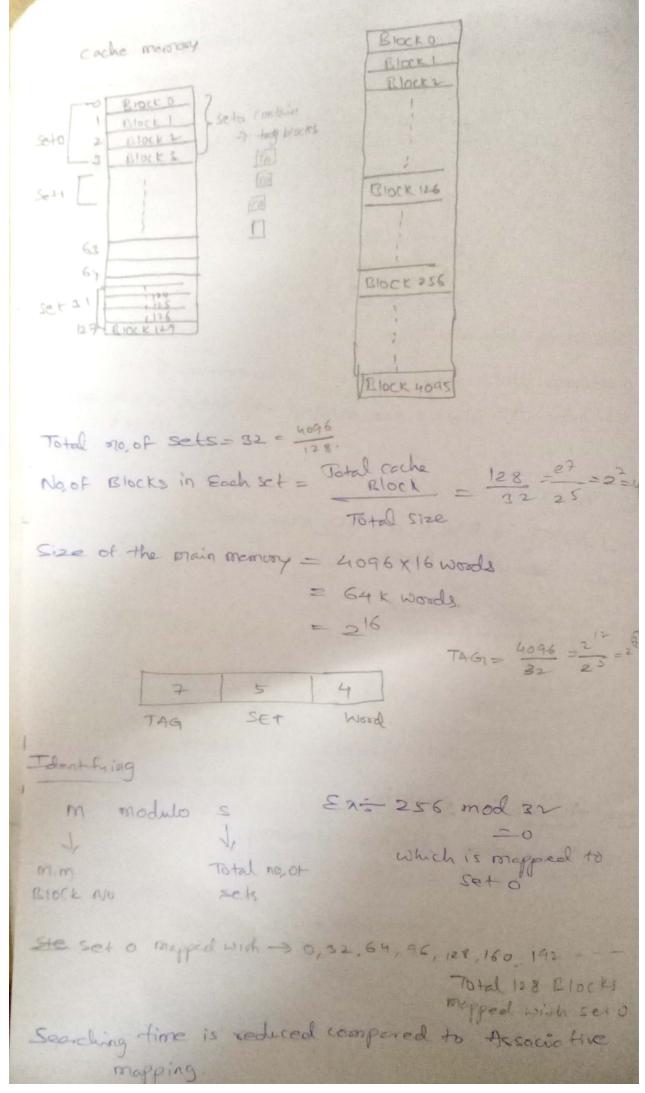
Clock is updated for snewling those

Instruction, processor refer write Through

Disty (00) modified bit: Before main momory
Fats Tag bits are modified







| Replacement Algorithms  |
|---|
| miss: Required word is not found in cache momory  |
| (C) or K  |
| => If not found then the processor load from main my                                      |
| -ory to cache memory.   |
| thit: If sequired wood is found then we call it as  |
| If it is available then processor load from   |
| Cache memory.   |
| Ex: Cache monon   |
| miss miss hit hit miss miss hit hit   |
| 5 3   |
| miss hit  |
| Replacement is done in the form of (FIFO)   |
| ije 1 → 5.  |
| - Celcalatina haira pura se   |
| Total no, of referred = 50%.  |
| -) calculating hit ration - no, of hits = 5 = 0.5  Total no, of references 10 = 50;       |
| LRU: Teast recently used Algorithm.   |
| reast rectntly used Rlocks.   |
| Compare two three the previous one is older.  En:  1 2 1 2 3 4 2 1  recontly  Used  1 2 5 |
| TRU Most Recently   |