



=) Mapping scheme: How to allocate Main-memory on smaller sized bro cache memory? (Here, we are know that cache memory do it because of locality of reference. But that is no 1 Direct Mapping: etopic no Assume Black-size to be 10 words, & 10 No. of blocks = 100 2 # coche-line = 10 (cache-line are blocks Cache - memory # bleck =1 i = j modulo m just ere # Cache-line=10 000 2 = Coche-line M = main - memory block number m=#cache-line. Eg: - Block no. = 69 will be mapped with i= 69 modulo 10 = 9th cache-line. Problem: But, problem is that 5,15, 25, ..., 85,95 all a mapped with same cache-line Infact, Block 65 contains words from 650,651 Solution: word address is divided into stree parts: Tag Counterline Word Tag Cache Word. , ون د Eg: - Cache-size = 64 KB, Size of Cache-line = 4 by tes main-memory size = 16 mB Mow do you divide main-memory address if direct

