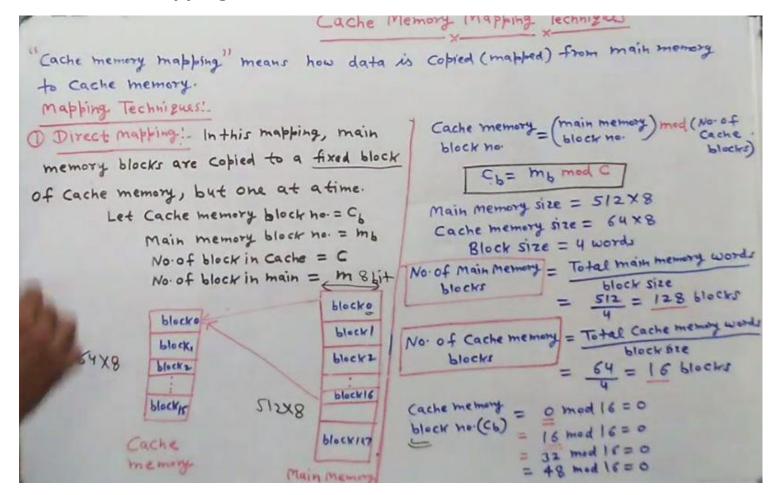
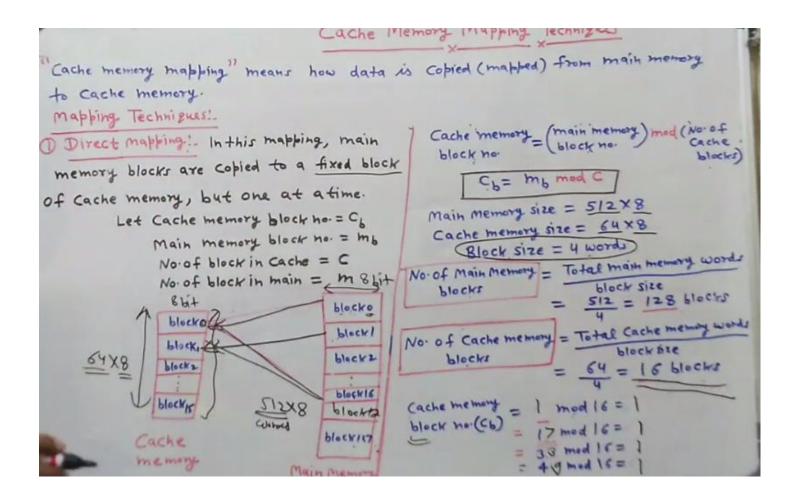
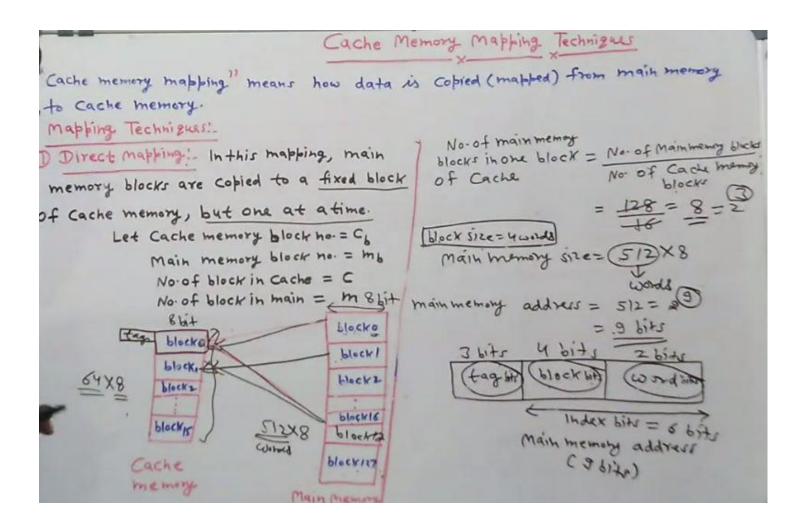
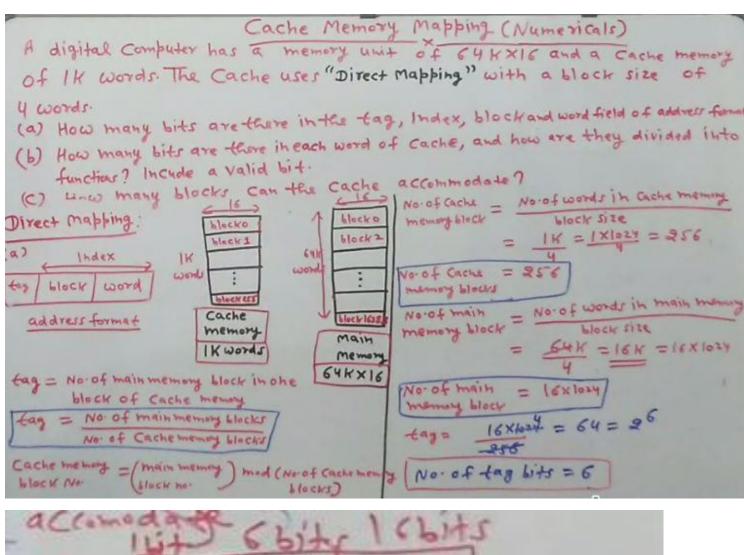
Cache Memory mapping

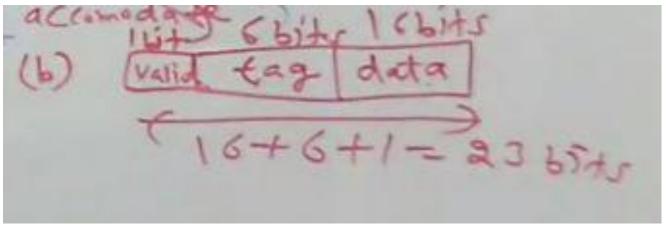
Direct mapping











Set-Associative mapping

```
Cache Memory Mapping lechniques
"Cache memory mapping" means how data is copied (mapped) from main memory
                                            No. of blocks in Cache = No. of woods in Cache memory
 to cache memory.
                                             No. of blocks in main = No. of words in main memory block rise
 mapping Techniques!
1) Set-Associative Mapping: 9+ is a
                                                  Let Set size = 2 ( Two-way set associative)
of direct mapping & associative mapping
                                                       Block size = 4 words
Set-Associative Direct + Associative mapping = mapping mapping
                                                       main memory = 512×8
                                                       Cache memory = 64x8
In this, Cache memory is divided into set
                                            / No. of main memory = 512 = 128 blocks
 Set = group of blocks
                                            No. of Cache memory = 64 = 16 blocks
 Blocks = group of words
                                            / No. of Sets in Carle
  Cache memory (main memory) mod
                                                    memory = 16 = 8 sets
                  block No.
   Set No.
                                            Cache memory > 0 mod 8 = 0 1 = 1 mod 8 = 1
                                                           8 mod 8 = 0 = 9 17 mod 8 = 1
                    No of Cache memory blocks
 No of Sets in =
                                             set No.
                      set size
    Cache memory
                                                           24 mod 8 = 0 / 25 mod 8 = 1
```

