List the access method on Memory?

1) Sequantial
2) Direct access
3) Random access
   Suchag: (Main memory and some of cache system)
4) Associative
   Suchag: (cache memory)

write notes about "word" on memory?

The "nature" unit of organization of memory. The size of word is bits suchag CRAY c go
Size ال byte حجم length يتيح بالنية حجم وجود يوجد

- Intel x86 architecture has a wide variety of instruction lengths, expressed as multiples of bytes, and a word size of 32 bits

write notes about Memory hierachy?

The design Constraints on a computer's memory can be summed up by three questions
How much, How fast and How expensive
                           سعة → Capacity
How much ─────────────→ accesstime
How fast ─────────────→ Cast
How expensive ─────→

The relations:-
- Faster access time, greater Cost per unit
- Greater Capacity, Smaller Cost per unit
- Greater Capacity, slower access time
-> The designer needs to use expensive, relatively lower-Capacity with short access time Memory Hierachy - Diagram
  - Inboard memory (Register, cache, main memory)
- output board storage (Magnatic disk, CD-RAM, CD-Rw, DVD-Rw, DVD-RAM, Blu-Ray)
- off line storage (Magnatic tape)