COA 122010325012 Aerignment -3 3) RAM chip: * A RAM clip is a microllip wed as KAM Storage for computers and other devices. This is the actual chip that is Soldness outs small circuit boards in oder to create RAM carels & sticks and it is bated for performance and capacity differently, depending on the model and namfattunger. ROM clip: * ROM is an alvoryon for Read-Only Memory. * It refers to computer newdy chips Containing permanent of semi-permanent date unlike RAM, ROM is non-volatile; ever after you two off your computer, the contents of ROM will remain. Mount every coupite loves win a shall amount of ROM combaining the boot formware.

S- Jahwanth

of Associative Memory a newsy out whole sound information can be recognited for approach by the context of the information thely invest of by an address of a neuroly location. * Associative memory in also known at content Addresde mendy (CAM) Block diafrom: Argument Match Register input - array & logic Read - mudds, a bits
par wold
write ->

The contents of the cache surrialization file are ared to populate it update a cache - This oleurs who a cache server start up. when a ctient application explicitly creater it's cause, I when a client explicitly bouch a new structure into an existry code. Cache virting techniques: -> write through > write Back > with Bit of white arough I Virtual Memory: It is a memory management technique where secondary mennoy can be wed at if it were a part of the main neurly. Virtual neuvry is a common technique und i a coupties os. To map virtual memory address to physical

semony address page tables one wed. A page fable convicts of memories page table entires (PT)

The different types of mappings from main neway to cache memory: - Acrociative mapping: In this type of repairs the associative memory is used to store Contact le addresses both of the memory -) Divert Mappiel: In divert mappiel the RAM is made use of to stove date and some is Stored in the cache address spale is Split into 2 parts: Index field 2 tog field. - self Set- Avoiative mapping: This form of mapping is a modified form of the direct mapping where the disadvantage of direct mapping is e) Newsy is the process of the devices that is used to store date of programs of a temporally of permanent baric for use lu au électronic digital, computer. The namely hierarchy the cost of namely capacity to speed there to speed there to speed there the denier are attached in a name fact the denier are attached in heavy. The register to heavy. The register to heavy. The register are present juride the CPU. As they are present Puide he cry they have the last own time.

I Performance contrideration In mandy system. I wied by the cpu to reduce the newly A section of memory closer to the CPU > stoves frequently used menuly. > Derign aumptions for the cache.

> Date that is acteued once will more than literly de averted again. I when nevery is accounted, nainty real that location will be arred. I surveit in cache is used for exemble intructions.) outer cache in wed to speed up date fetch & stoke-