

for of CPU is executing the task (whole task) the termination (
then it is known as muliprogramming. (Non-presemptive)

In I one priority task comes and forces to be executed fibest then the running process task in running states send the running task to ready state and execute that priority task, known as mutitasking here. (pre-emptire)

Running -> Wait Block ?- If one process at the time of execution in Running state request for some I/O resource then sold

that process transferred to wait Block state, does that I to work, goes I to work and after the completion of enal- I to twork, goes back to Ready state: In this whole process, CPU does not lit Edeal for that particular process to execute its requirement.

wait Block -> Curpend wait.

Medium town Scheduler

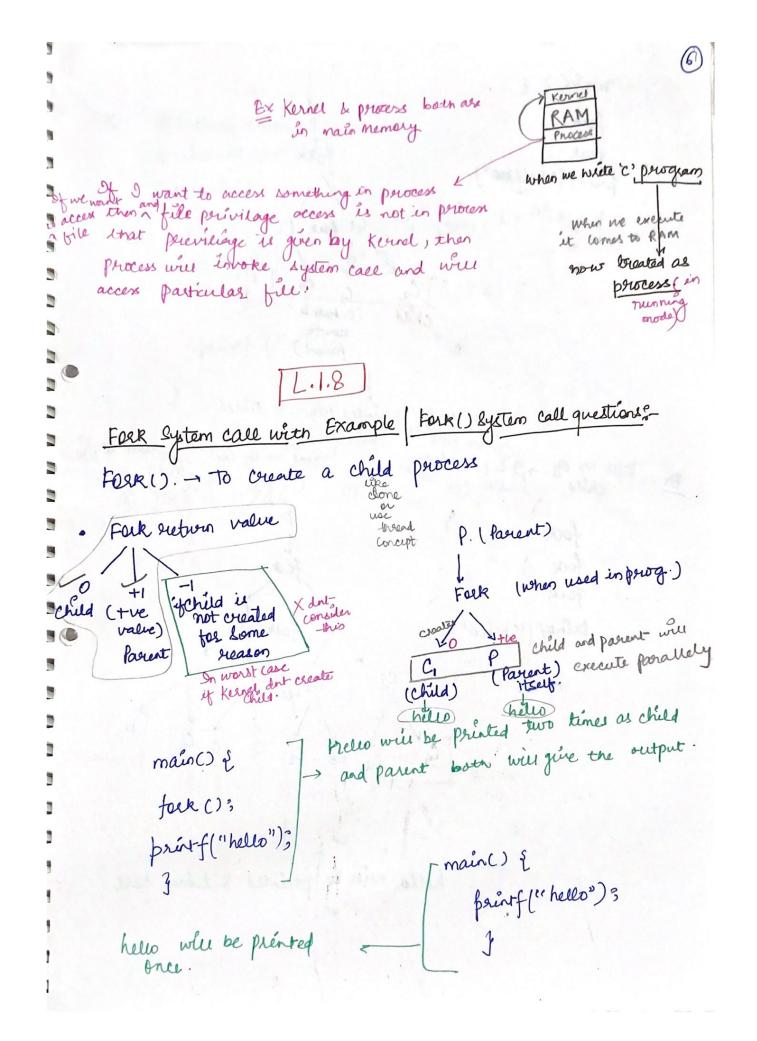
- on whenever the RAM is fulled due to many perocesses then MTS does the wook of swapping out the processes to Suspend wait
- when your processes are full in RAM or in the State where RAM memory is used. Or to free the space for VVIP process
- o MTS based on least frequently, most frequently, priority assign the process to suspend wait or suspend Ready.

16.1.7 System Calls in operating system and its types: is a perogrammatical way to shift from user mode to keened model but to print the offto monitor or printer you want to cuces the hardware but to print the offto Kernel mode concerning. Ex I neart to add I now and want to If we want to access any functionality useq mode of operating system than we · If wer is using any app" I have to go to kernel mode Or API or writing a pring then we wante do this is A N.p user mode e System call ? +Fele Related > Open(), Read(), Write(), Close(), Createfile etc > Device Related > Read, write, Reposition, lecte, fentilisa headerbile nardware the access the hardware previous to access that requested hardware. It system out gives user the previous to access that requested hardware. If we want to access -> Information -> get Pid, attributes, get system time and data If we want to have Process of get ppid > parent process id (generally metadata Broces Control > load, Execute, about, Fork, wait, Signal, Allocate device or processes up the values of haph If we want to load execute etc multiprocessing · Parent process create child process independent and they both doing their work independent to main memoly +> Communication > Pipe(), create delete connections, 4 Hoget the shared memory Inter Process Commo

. In some system we don't write system calls directly instead use APIs, local libraries ( like print , Scant () etc)

· whatever we are using either API or lib. etc they all are accesse perform the task) System call ( invoke Keenel to

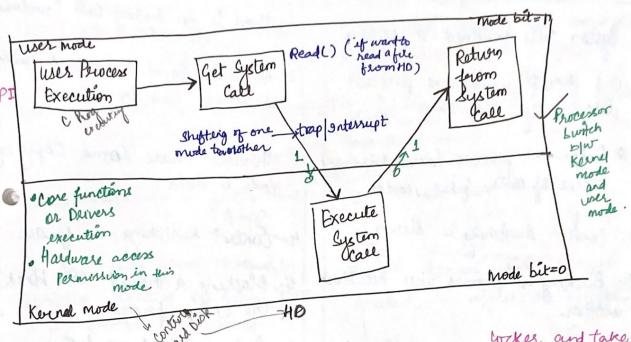
printf ( Is a lib or function bout what it is actually doing & accel System call, means we can say printf is same as without in file related work)



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(Dual mode)

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if we go to bank, we cannot directly go the bocker and take the data | gold | ash out to do so, we had (as in user mode) the data | gold | ash out to do so, we had (as in user mode) approach clerk | manager (an Keunel mode) to give access to approach clerk | manager having all the access can open looker then clerk | manager having all the access can give us the persua permission.

Operating System -> Resource management work
here.

Ex whatever you are doing either Ms worth, Youtube, paint ets through API is in user mode.