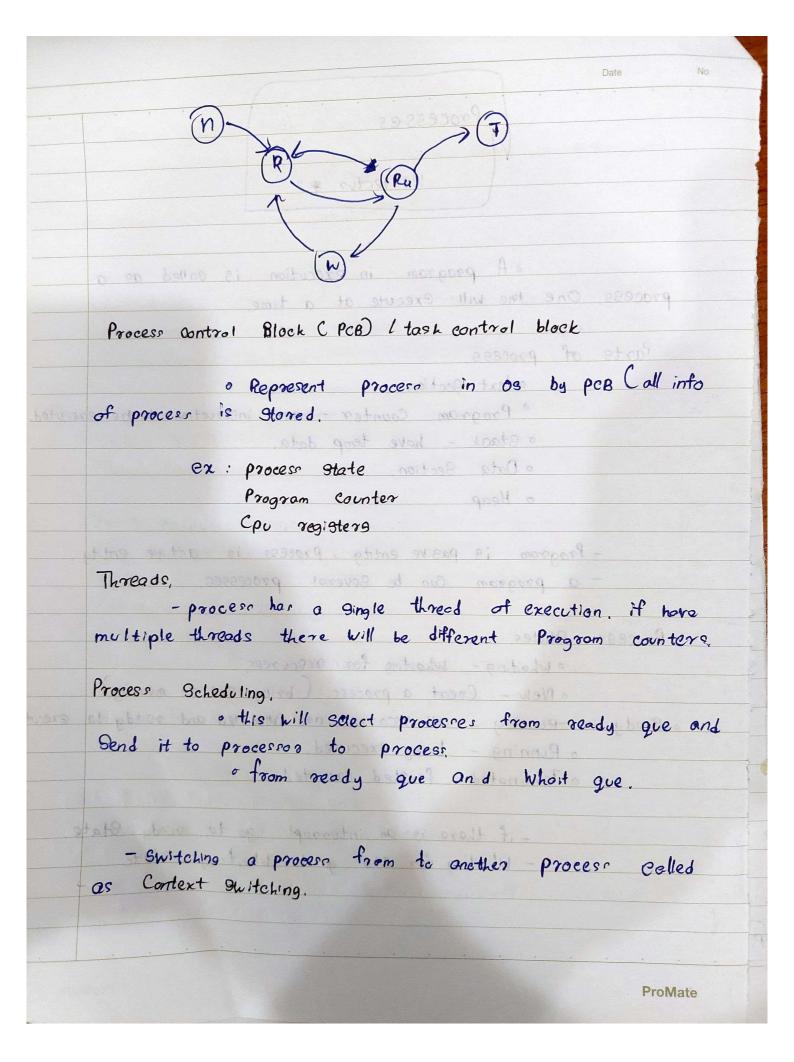
ICS lectur #3 \* A program in execution is salled as a process. One line will execute at a time. Parts of process. No lang at o text section song topologist \* Program Counter - next instruction to be executed. o Stack - have temp data. o Data Section, state making was o Heap sotruct moscos? - Program is pasive entity, process is active entity. - a program Can be several processes Process States, to all and anoth should be to the o whoiting - whoiting for resources · New - Creat a process (bring exe to memory) · Ready - - Running - all recorees one allocated and ready to execute o Running - being executed, o Terminated - finished executed. - if there is an inturrupt go to ready State. - Whoiling for Ilo go to whoiting State ProMate



-epu doesn't do onything While context switching.

elsed in an Copperation proc

Operations on processes

o Creote processes

o Terminote processes

o process Con Create another process, has a unique Id, CPId).

to debted exemper benett To

relationship that can have between Parent & child.

• Resource Sharing

• Execution Option

• Address Space

fork () -> creat a new process

exect () -> replace the current process

Woit () -> parent woit till child end.

@ Process terminotion

- using exit c) call process will delete.
- about () = stop the execution of the child.

· Carcading termination - All childrens will terminated.

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Interprocess Communication, CIPC)

· Used in in Copperating processes to Communicat withing different processes, need IPC.

9 Models of IPC , some standard of

O) Shared memory, -bounded buffer

o Coante panecia

message passing, sociones de la company de l

Producer - Consumer problem.

Consumer - Use items

2 types of Producer - Congumer

- a) unbounded buffer unlimited
- 3) Boused buffer fixed length

noited noiturer a cotion

od IPC message pagging

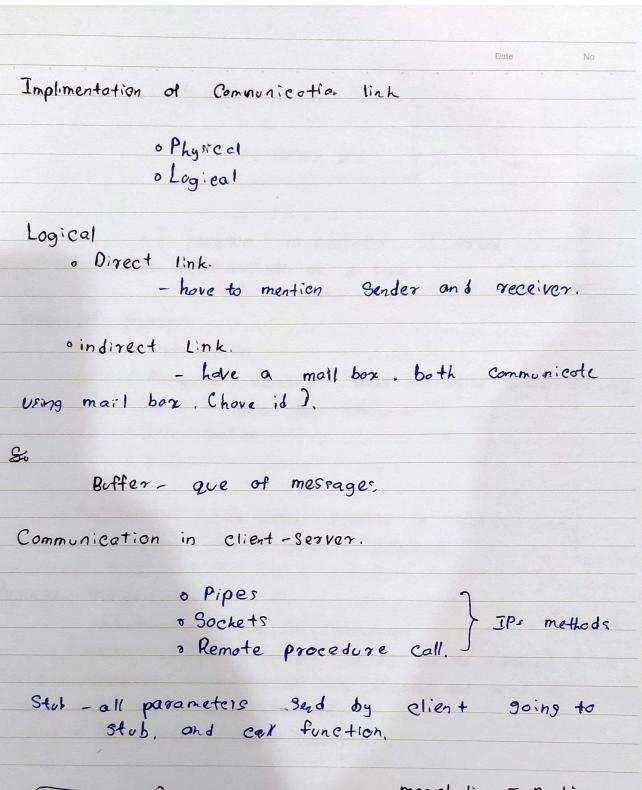
have 2 operations

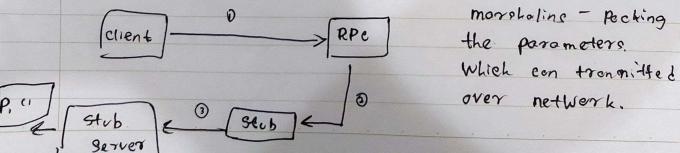
hald that arroad to Send this

bill alt to not soon o receive is took -

-don't have Shared Variable. Just port the mescage. need a communication link.

ProMate





**ProMate**