Assignment No.1

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Page No.:

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TP+1e: Process Management
(Process (ontrol)

FAPS

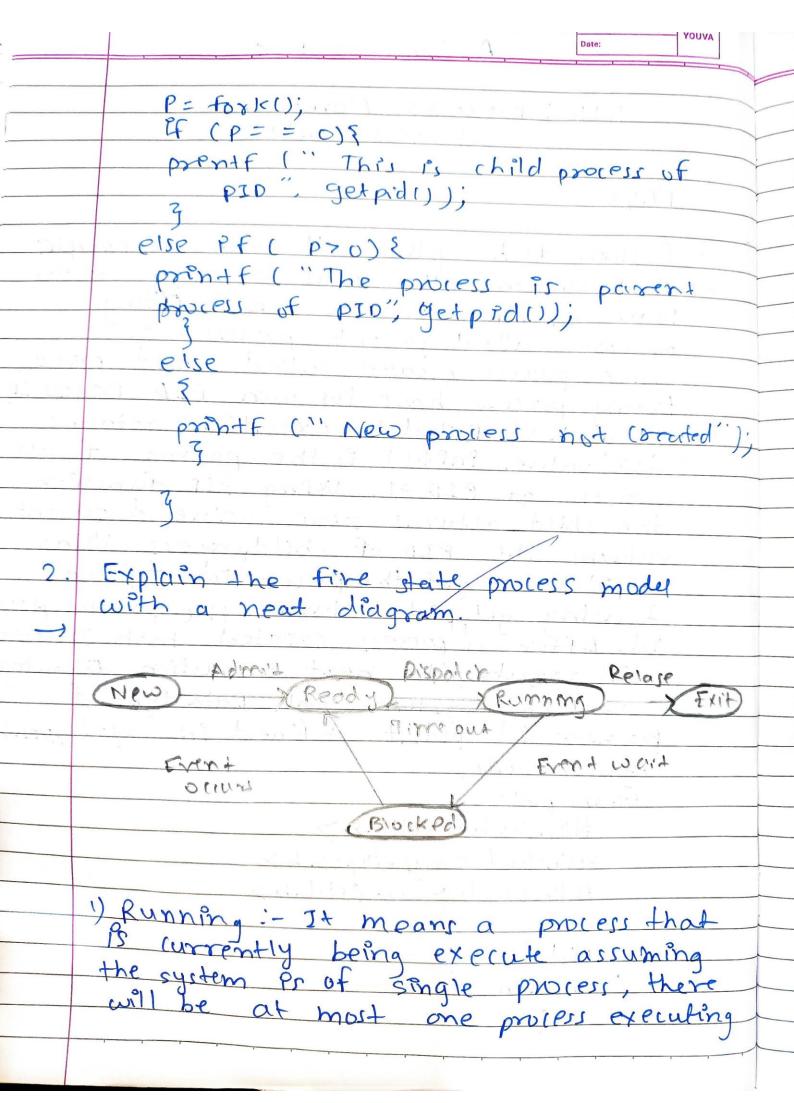
1. Explain fork system call with an example.

I fork system call creater a new process from exsiting process. The existing process called parent process & new process created called child process Every process have its own PID (Process 10) If fork () failed in execution returns -ve value. Pnº+() of the parent of all process of PID=1. Using PID function the child returns zero value & parent returns the PID of childprocess. Using getpide we get the process id of process 2 using getppid returns the parent process. will execute the next instruction tollowing the fork() system call pata type of processor id pid t defined in systypes.h Leader file

Example:

#Prolude < stdio.h>
#include < sys/types.h>
#include < unistd.h>

Pid t P; main()



Page No.:

Page No.:

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at a time.

2) Ready: - A process which is prepared

to be executed but is waiting for

processor executing at a time all atment.

3) New: - A process which has been

crated but is not ready for execution

and is not loaded in main memory.

It's process control black has been created.

4) Blocked: - A process which is waiting

for some event like I/o event to

occur is in blocked state it cannot

continue its execution till the event

occurs.

5) Exist: - A process which has completed

its execution.

3. Explain mode switching of context switching.

A process can be executed in user mode and kernel mode. A process whele executing changes its mode of execution P.e user to kernel or kernal to user due to a system call then this B called as mode switching.

Context switching

Context switching refers to a technique/
method used by the os to switch
processes. Eng. If process A' is executing
then the dispatcher will switch the
process to B. This is done with the
help of commands reload and save.

Ap 23