Justify the Following, Processing con' exercise crude control of their scheduling priority by using nice() system call function. The Kernal implements a fair - share schedwing algorithm that gives process a share of CPU time based on priorities assigned to them, depending on the nature of the task. Higher priority process get scheduled more often and receive more cpu time but the process can exercise crude control of its scheduling by using the System call nice() as follow: process priority is the function of this nice Value.

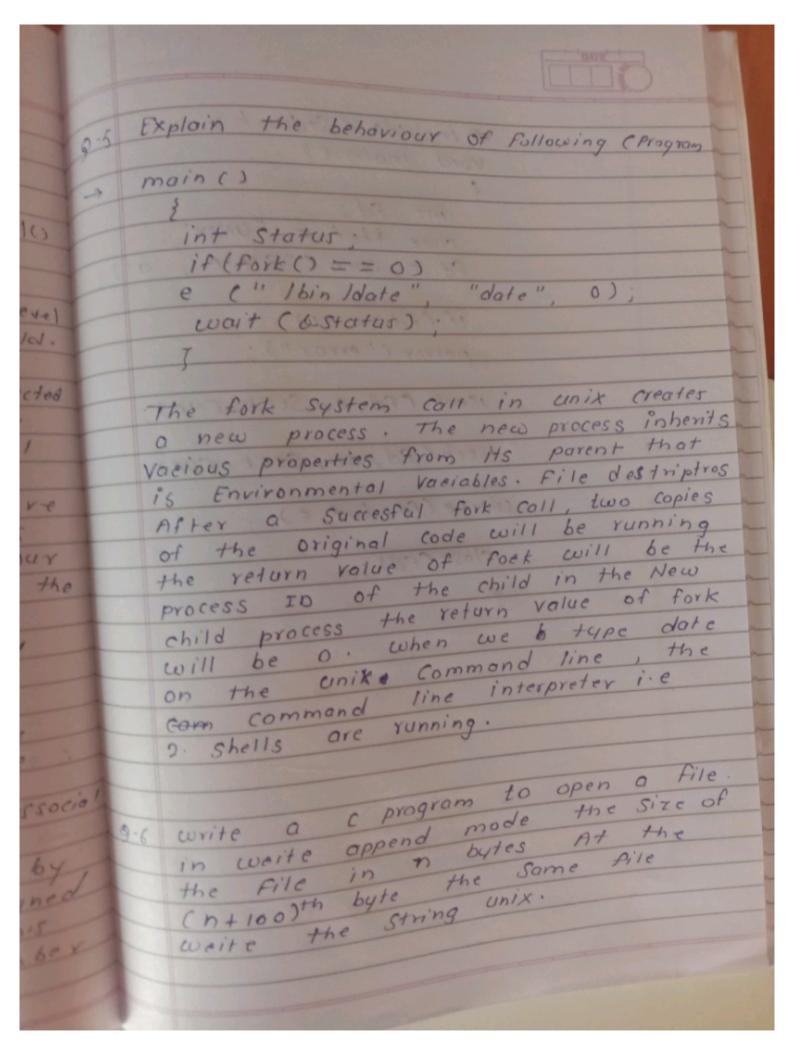
process priority - Recent CPU Wage a

constant it base priority + nice value. this algorithm gives algorithm group A twice the Slot of group B, their name times that of c and four times that of b, where user processes are group by priority. 12 Justify the Following processes and process. The PID O is reserved for the Swapper

Process and I for the init process.

The PID O is reserved for the Swapper. > True the stortup function for the kernal establisities memory management, detects the type of CPU and only additional

functionality such as floating point functionality such as then switches to capabilitities and then switches to non architecture specific linux kernal functionality via call to start - kernalis init is the father of the process Justify the Following. At the ternal level Support for protected process is two rold. At the kernal level support for protected process is two fold first, the bulk of process creation occurs in kernal mode to avoid injection attacks. Second proction protected process have Special bit Set in their EPROCESS struture that modifier the behaviour of Security related routines in the process manager to deny certain access rights that would normally be granted to adminstrates. 9-4 Justify the Following in linux the File is usually accessed Via File names. The actually are not directly associated ted with such names. instead, a file is referenced by on innate which is assiveg assigned a unique numerical value. this value is called hum inode number



include < Stdio. h > Void main () int Fd; chae *buf = "UNIX"; Fd = open ("File.c", 'a') if (fd = = -1) perror ("error"); iseek (Fd, O, SEEK_ENO). iseek (fd,100, SEEK - CUR) weite (fd, buf, 5). close (Fd);