10B8 13098 Viveb. V. Par Unix assignment - 2. what is a fite? Explain different types escalable in DNIX on POSIX system. Also write the commonds to create all the files. site à a collection of records, so files and divided onto 3 catagories only data as a stream of characters. a Text file: contains only printable characters and you can often view the contents & make sense out of them. All c and Java file are example of text file. + Binary file: it contains both printable & unposintable characters that cover the entire ASCII storge (0to 255) Directory file:

** Comains no data, but keeps some details of the files & subclinectory that its contains.

** A directory file contains an entry for every file & sub directory that it houses Each entery has two components. 1 Directory file: * The file name

* A unique identification number for every file & d'irrectory d'inectory · used to represent a real physical device such as a pointer, tape drive or forminal, used for I/o operations · Unix considers any device attached to the system to be a file - enchuding your terminal:

· stdin and etdout will be discussed in more detail later

· usually only found under directories named folen

(1)	Explain the choon, fehown & lehown functions;
~>	chown.
	This command can be used to change the own askip
	of a fêle.
	Syntax.
	chaun usurname filename
\$1.00 may 2	changing. ownership requires superver poimission, so
3	use or command & su
1 . 5	Password! *** **
	o after the passoord successfully entered, su returns a
\	# prompt, same prompt used by snoot su lets according
	Eq :
	\$ ls-Inote
3, 101	-rwxrx 1 Rumor metal 347 may 10
	d chown sharmanote
	\$1s-1 note.
*	- rwxr x 1 sharma metal 347 may 10 20:30 rox
V V	
	Fchown!
	· The fchown () function has the same effect as chown ()
	expect the file whose conversity is to be changed
	expect the file whose convership is to be changed is specified by file descriptor rather than path name
	.t chown
	· The (chown () function has the same effect as chown()
ito (s)	expect in the case where the named file is a
4. 4	symbolic link. In this case, lehown () changes
	Symbolic link. In this case, lehown () changes the ownership of the symbolic link file ofself
10-1	and the state of t

Explain the following API's along with prototypes:
is open uil fentl (iii) seek (iv) stat of sact (3) open () system call open a file for neading writing on neading and writing. The prototype for the open () system call is int open (file name, option - flogs [mali]) char & file - name; Algoritm for opening file Input: fête name Type of open. file permission üil fentl () function: This system performs file control and Ilo control on
the descriptions. It is an interface to the fent () & ioct() unix routines. • The prototype for the fentle function is. #include (unistality # include < fentl. h> i) F_DUPED ii) F_CTETED (iii) FSETED (V) F-GETEL W) F-SETEL WIL F_GETOUN Curil F_SETOWN iii) seck function: Read and write operations normally start at the current file offset to be incremented by the number of bytes

read or cositten.

• The syntax for seck system call is position =

"Iscele C fat, offset, reference);

1d = file description offset is byte offset reference - indicates whether effect should be considered from the begining of the file.

The bee leech system calls has nothing to do with the seck operation the posttions a dist arm over a particular clisk sector (iv) Stoort and fritat · These two-system call allow process to goong. the studies of files, retwining information such on the fole type, file owner, access permissions file size, number of link, inode number & file access time access time fstat () is identical to state, except that the file to be stat-ed is specified by the field descriptor fileder Explain the chmod & tch mod functions: a A file or a directory is created with a default set of permissions which can be determined by work * To know the system's default permission coccate of le cat > csc [clr/d] - new - or - - n - (defaut pointision for encated + The chmod (change mod) command is used to set the pormissions of one or move filed for all 3 categories " The command can be used in 2 ways: * In a scelative manner by specifing the change to the

document delimitor. & mailx kumar < MARK explore Discour. MARK • The shell towards every line detai delimited by MIARK as input to the command mails. eg: \$ ως-1 << F2 Nb. commite Succeed. end. 11 outputs number of lines = 3. 3

command << delim to