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- Computer drience land Engineering to

Lite II Semester-

File Handeling

The C file system is designed to mark with a wich variety of denices, including terminals, which variety of denices, including terminals, dish drives, and take drives.

Even through each denices is hery different the buffered file system transforms each into a logical denice called a stream.

It is at two types—

* Text stream— A text stream is a sequence of characters.

* Binary stream — A binary stream is a sequence of bytes that has a one-to-one correspondence to the bytes in external device — that is, no character translation occur.

* Files -

In C, a file may be anything from a dish file to a terminal on printer. You associate a stream with a specific You associate a stream with a specific file by performing an open operation. In Since a file is open, information can be exchanged between it and your programmer the 'C' I/O system provides a level of abstraction between the perogrammer and the device. This abstraction is called a stream, and the actual device is called a file.

- File Pointer

The file pointer is a pointer to a structure of type FILE. It points to information that defines vorious things about the file, including its name, status, and the surrent position of the file.

To obtain a file pointer variable, use a statement like this:

FILE * fp;

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The fapone) function opens a stream for use and links a file with that obvious. Then it netwerns file pointer associated with that file.

The fopene, function has this probatifie,

FILE *fopen (const chay *filename, const chay *mode);

where filename is a pointer to a string of characters. That make up a valid filename and may include a path specification.

The string pointed to by made determines has the file will be spened. Below table shows the legal values for made:

M	odes Meaning
o d du dw	Open a text file for reading. Create a text file for writing. Append to a text file. Open a binary file for writing. Dreate a binary file for writing.
ab	Abbend to a lineary file.
Xt Wt	Open a text file for read/write.
at	Append on vieate a text file for read/write.
JAH.	open a binary file for read/write.
v+b	Ireate a binary file for read/write.
atb	- Append on receite a binary file for
4	read/write.

The place!) function closes a stream that was opened by a call to topen!.

It writes any data still remaining in the disk buffer to the file and does a formal operating-

System-level close on the file.

Failure to close a stream invites all kinds of trouble, including lost data, destroyed files and possible intermittent everys in your program.

The felose() function has this prototype,

int fclose(FILE * {p);

where of is the file pointer returned by the call to topen. I. I return value of zero signifies a successful close operation.