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assignment 1 - File I/D due friday before finals

- · filename is just a string ex. "data.txt";
 "c:\newfile.txt" l newline char
- · mode is also a string there are (12 modes) (divided into 2 groups of 6)

TEXT MODE

open for reading; file must exist! create or truncate file for writing

" OL " create or open file for appending

"appending" open for updating; file must exist = writing at theEND

create or truncate file for updating create or open file for updating, for appending

read and write

UPDATING

truncate"

= delete content

BINARY MODE

"rb" "wb" "ab" "r+b" "W+b" "a+b" "rbt" "wbt" "abt"

txt us binary mode

- no difference in Unix

in Windows, there is special handling of In in text mode

> Cont.

cont ... text mode in Windows

only in char becomes 2 chars In C program in the file $n'' \rightarrow n''$ any other char, $c \leftrightarrow c$

Writing and Reading a stream

f printf /fscanf f gets ex. f gets (line, LINESIZE, fp)

ex. Summing integers read from a file

int n, sum = Ø;

/*code to open file omitted */ file content:

While (fscanf (fp, "%d", kn) == 1) 123, 456, 11,

Sum + = n; a FILE*

· closing a file

if (fclose (fp)!= Ø) {

perror ("fclose");

/* additional error-handling if needed */
}

- actually, we close a STREAM
 - · this disassociate the stream from the file
 - · this flushes output buffer associated w/ stream

NOTE: most modern os automatically closes file when program

... Lecture 10

```
ex. Program to copy a file | Luser will specify file in and line]
                  4. /copy file 1 file 2
                                                              PROGRAM needs to
                  #include <std10.h>
                                                              check the cmd args or
                 int main (int angc, char * argr []) { else it will crash!
* is repeated
                      FILE * ifp, * ofp;
                      if (argc!= 3) t
                          fprintflstderr, "usage: %s (source) [destination] \n",
                          return 1;
                                                                        arg v ($1);
                      if ((ifp = fopen (arg v [1], "rb")) = = p) {
                          perror ("fopen");
                          return 2;
                      if ((ifp = fopen(argv[2], "wb")) = = $\phi$) {
                          perror ("fopen");
                          return 3;
                     while ((c = fgetc (ifp))! = EOF)

fputc (c, ofp);

if (fclose (ifp)! = Ø) [

perror ("fclose");
                         return 4;
                     if (fclose (ofp)! = 0) {

perror ("fclose");
                          return 5;
                     return $ ;
```

Hilloy

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