## INTRODUCTION TO FILE HANDLING! in programming, when we envolve large amount of data, the scung() & privage) operations (I/o operations) get two major (i) et & difficult to handle large volume of data through terminals. (ii) The entire data is lost when either the program is terminated or the computer is turned off. one solution may be to take printant of the program & outputs. But this xolin's not feasible when large amount of date Therefore et is necessary to have another is present. · solution where the data can be stored. on diere. (hand disk, compact diek). permenently. this method employe the concept of tires to store date. A fue is a place on the disk where a group of seented data is stored. Record+ Contact of Now this new way of handling the data & engon inform is called the handling Need of tile handling! - Due to the drawbacks of toxelitional IIP & O/P (I/O) eyetem. there was a need of fire handing

Drawballke of Traditional Flo Systemin Duntis now, we were using come ofe oriented. I/o functions. console application means an application that has a text based Enterface (bluck screen window). De Most applications lequire a large amount of data. Let this data bentered through correcte their et will be a time concurring busto. (3) Mans draw back of neing toalitionsel I/0:- data es temporary. (and et Will not be available during la execution) lo "New way of dealing with date is fire handling. (2) data is stored outo the disk & can be lettived whenever lequired. (3) output of the prog. may be stored onto the diek.

FILE HANDLING IN"C" file handling concept en c language et used for store data permanantly in comp. using this concept we can store our data en secondary menery. All fires related functions are available in stais. I header You to achieve File Handling is "c",-(1) Naming a fire (1) opening a fire, (1)1) Reading data from file. (iv) writing data ento file. (v) closing as file. file ofening Modes: purpose open the fire for reading Reading open the file for writing weiting only. open the file for Appending appending (or adding) data to it. Reading + writing open for both > weiting + Reading | Reading & writing Ef the fire exists, its contents are overwritten, ef the fire does not

6. at Reading + appending.

exist. It will be created open for both reading & appending, if the fire does not exist et will ze created.

you the mode work!-

Mode

functions

s- opene an existing fire for reading only.
gives essos ef the fire doesn't exist.

W- Opens a new fire for writing only if the fire does not exist their it will be created. else existing fire will be destroyed & new file will be created.

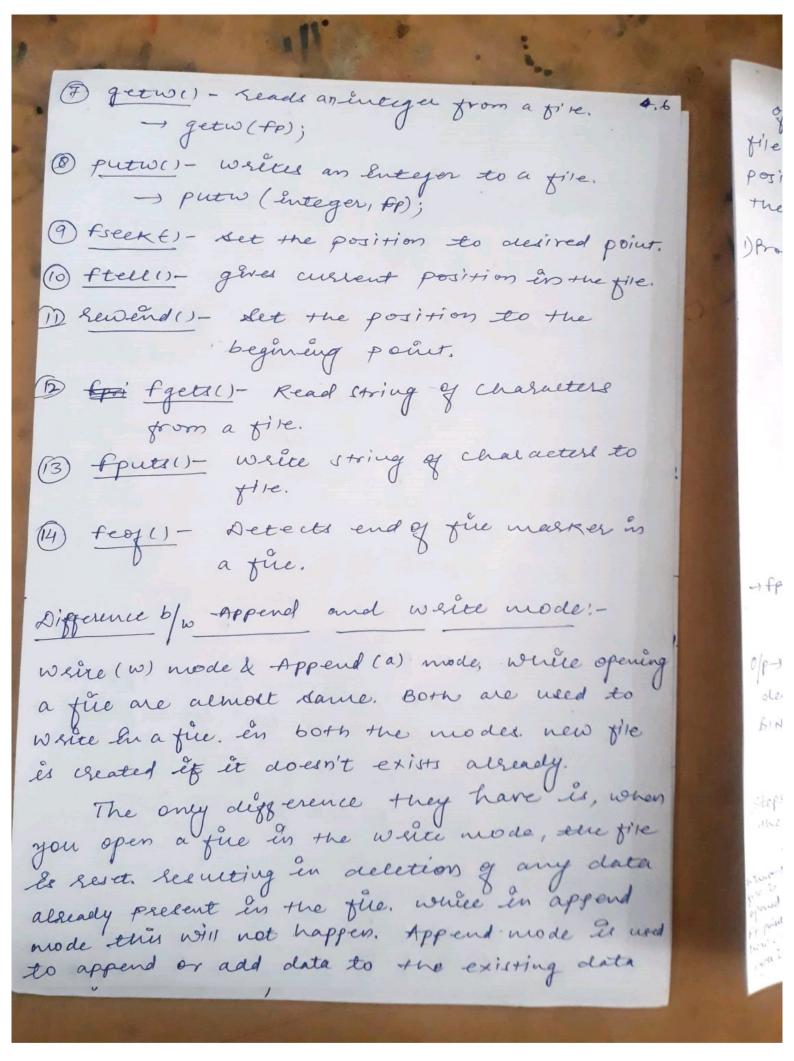
a - opens an existing tile for append purpose i.e. to add new data to its ex the file does not exist then it will be created

st-opene an existing tile for reading & writing purposes gives error if the fix does not exist.

Mt - opens a new file for reading & writing by the file does not exist then it will be created., else existing file will be reated.

at - opene an existing file for reading & appending. Eff the file closes not exist, then it will be created esse existing file will be created esse existing

for opening text for opening sinails fires use! rt Wb w wt ab a at Rtb or rbt 2+ 2+tor 2t+ w+bor wb+ wt wttor wtf atb or abt a +attor att Functions used in the spandling in c!-1) Fopen()- Creates or opens a new file. Syntax- FICE XFP; Will be in upper case only. Here PP & a pointer of fire type. To open a tile! fp = fopen ("tite-name", "mode"); @ fclose() - to close an existing tire. folose (filopointel); (3) getal) - Read a character from a five. 4 putce - write a character in a fire. fprints() - To write set of data in fire. (formation output) frange - To read set of data from file. (formatted input) Syntax! - (1) get ( (fp);
(4) put ( (c, fp) 4) putc (c, fp); 1 fprintf (fp, "control etring", ent); 6) frang (fp, "control\_string", eist);



of the (egang). Hence when you open a file in Append (a) mode., the curtor is the file The fire. ) Program to open, close & write to a file: ti le name Voed main () p, opened en wrête mode FILE \*fp; char ch(20]; fp = fopen ("demo.txt", "w"); fri utf (fp, "firehandling prog. "); je fclore (fp);

String written to

fire. pointed by tp. print ("enter the text:"); - fprivtf(fp, "/,s", ch); Scary (" "/s", &ch); O/P-) A text fire with name ">. [^n] if we want to use spaces. demo, txt will be created in BIN folder of tc. Jdemo.txt file handling program 3) when fire is Steps: - 1 Duitially when 2) After writing data to file closed. there. the tile is opened. locary programs (Mun) deno.txt (temp. There ! The 80 the file pointer fr Content transferred of points advances each us by nere by written to fire. spend to permanent storage

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```
Reading from füe! -
   1. Focany () - heads a string without space.
  2. fgets (1 - Reads a string with space.
  3. fgetal) - Reads a characted from the file.
forg. to sead from file using getcl):-
 main ()
   FILE XFP;
   chase;
   fp = fopen ("demo.txt", "");
   ( e = getc(fp);
    privey ("1/.c", =);
   write (!feof (fp));
 using fjets()-
  main ()
  [ chas st[50];
   FILB * fp;
    fp = fopen ("demo.txt", "2");
    fgets (str, size of (str), fp);
                                  heading from file so.
   fprint (std out, "1.5", str);
                                by tes of data & Storeing
   fclose (fp);
                                 et in str.
               Writing to
           Screen using stdant
```

```
Appending data to a file:-
  # -
                            tile pointer points at
  maine ()
 of FILE Xfp;
                              the end of the fire
    char str[20];
    fp = foper ("demo, txt", "a");
    fprinty (stdout, "Enter the string to append");
    gets (str);
     fprint (fp, "xs", str);
     fclose (fp);
checking the end of tile:-
whenever a fire & closed, a special character is
placed at the end by the c compiler. This
special character is known as end of tire (eop)
character. for cheexing the end of the, we
use the function feof!.
       , Returns zero ef the end of tile b not reached
feof() Returne non-zero value et the end of the
        ie seached.
# -
main()
FILE * FP;
 chas ch;
 fp = fopen ("demo. +xt", ">");
```

Ch = getc (fp);

white (feof (fp) == 0) -> AI long as feq()

leturns zero; there

putc (ch, stdout); 's some clate to

ch = getc(fp);

3 fclose (fp);