

File modes, fgets, fputs, fgetc, fputc & more on C file handling- C Tutorial In Hindi #67.mp4 - VLC media player

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## WORKING WITH FILES IN C

*ptr → a*

- stdio.h contains a function called fopen() for opening files in C
- When working with files, we have to declare a pointer of type FILE
- This declaration helps us to work with files through C program.
- The syntax for opening a file in standard I/O is:
  - ptr = fopen("filename", "mode")
- In order to read/write to a file, we can use fscanf/fprintf function.
- fclose(ptr); //ptr is the file pointer associated with file to be closed

*fptr fopen("main.txt", "r")*  
*FILE \* ptr;*  
*ptr*

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## MODE & DESCRIPTION

Mode	Description
r ✓	Opens an existing text file for reading ✓
w ✓	Opens a file for writing. If it doesn't exist, then a new file is created. Writing starts from the beginning of the file. ✓
a ✓	Opens a text file for writing in appending mode. If it does not exist, then a new file is created. The program will start appending content to the existing file content. ✓
r+ ✓	This mode will open a text file for both reading and writing ✓
w+ ✓	Opens a text file for both reading and writing. It first truncates the file to zero length if it exists, otherwise creates a file if it does not exist. ✓
a+ ✓	Opens a text file for both reading and writing. It creates the file if it does not exist. The reading will start from the beginning but writing can only append to file. ✓

*r, w, a, r+, w+, a+*

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## OTHER FILE I/O FUNCTIONS IN C

fprintf      fscanf

- There are various functions provided by C standard library to read and write a file, character by character, or in the form of a fixed length string
- Some of them are:
  - fputc ✓
  - fputs ✓ *character* → *string*
  - fgetc ✓
  - fgets ✓

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## FPUTC FUNCTION IN C

*file* *putc* *character*

- Simplest function to write characters to a file is fputc
- Syntax of fputc goes as follows:
  - int fputc( character, FILE pointer ); ✓
  - It returns the written character written on success. ✓
  - On failure it returns EOF ✓
  - The EOF is a constant defined in the header file stdio.h.

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## FPUTS IN C

file put string

- fputs function is used to write a null terminated string to a file in c
- int fputs( const char \*s, FILE \*fp );

"harry"

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## FGETC FUNCTION IN C

file get character

- Simplest function to read characters from a file is fgetc
- Syntax of fgetc goes as follows:
  - int fgetc( FILE \*fp );
  - It returns the read character on success.
  - On failure it returns EOF
  - The EOF is a constant defined in the header file stdio.h.

h

harry

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## FGETS IN C

- Quick Quiz*
- File* *get* *→ string* *read*
- fgets function is used to ~~write~~ read a null terminated string to a file in c

~~int fgets(const char \*s, FILE \*fp);~~

→ *int fgets (const char\* s, int n, FILE\* fp);*

*harry*

*harry*