## WORKING WITH FILES IN C



- This declaration helps us to work with files through C program.
- The syntax for opening a file in standard I/O is:
  - ptr = fopen("fileopen","mode")
- order to read/write to a file, we can use fscanf/fprintf function.
  - fscanf(fp, "%s", buff); fprintf(fptr, "Marks= %d", salary);
- fclose(fptr); //fptr is the file pointer associated with file to be closed



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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 Try, a rt, wt, 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 $\checkmark$
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.

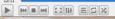
## OTHER FILE I/O FUNCTIONS IN C

• 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:

  - fputs\*

  - fgets



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## FPUTC FUNCTION IN C

file fut 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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