**Chapter 6: FILE HANDLING**

**Topic – 1: General information**

* **FILE** is a default **typedef** for file pointer.
* Mode options for file: **r**, **w**, **a**, **r+**, **w+**, **a+**
* Binary mode options: **rb**, **wb**, **ab**, **wb+**, **rb+**, **ab+**

**WARNING!**

**🡪 Not using *fclose()* function to close the file may cause unwanted behaviour.**

**🡪 Mind cursor position when working with files, which is different for each operation.**

**Topic – 2: General Operations**

**Reading From File**

***fgetc(fptr);***

***fgets(buffer, n, fptr);***

**Writing To File**

***fputc(c, fptr);***

***fputs(str, fptr);***

**Topic – 3: Array Based Operations**

***fwrite(arr, size, n, fptr); // Writes n items from arr of size***

***fread(arr, size, n, fptr); // Reads n items from arr of size***

* Actually ***fread()*** returns **integer** which tells **how many bytes** has been read.
* Giving irrelevant size to ***fwrite()*** or ***fread()*** results in some **4-digited** numbers being stored in the file.
* **.dat** = data file

**Topic – 4: Cursor Operations**

***feof(fptr); // Tells if end of file is reached***

***ftell(fptr); // Tells position of cursor from starting in bytes***

***fseek(fptr, n, pos); // Moves fptr by n bytes from pos***

* Possible values for ***pos*** are **SEEK\_SET**, **SEEK\_CUR** & **SEEK\_END**.

**Topic – 5: Formatted Operations**

***fprintf(fptr, "Name: %s, Age: %d", name, age); // Writing to file***

***fscanf(fptr, "Name: %s, Age: %d", name, age); // Reading from file***