CS1412, Spring 2021 Problem Solving & Program Design in C

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Lab 8 - In Lab Assignment

Due end of the lab session

Acknowledge your collaborators or source of solutions, if any. **Submission by the end of the LAB is required.** Please type your answers, handwritten submission will not be accepted. Do all of the following.

1. **Is it possible to use a file for both input and output by the same program? Please explain in a few words.**

We can read and write from the file using global function fopen().

The prototype of fopen() is:  
FILE\* fopen(const char \*filename, const char\* mode)

We can control the file reading and writing mode by changing the mode of fopen function.

We can use same file as both input and output file by using

a. r+ (for reading and writing)

b. w+ (for writing and reading)

c. a+ (for reading and appending)

Similarly, we can use similar mode rb+, wb+ and ab+ for binary files.

1. In the following table there are some library functions. Please mention if the functions are used processing a text file or binary file.

|  |  |  |
| --- | --- | --- |
| Serial | Function name | Used with text or binary file? |
| A | fwrite | Binary file |
| B | getc | Text file |
| C | fread | Binary file |
| D | fscanf | Text file |

1. What does the following characters do?

|  |  |  |
| --- | --- | --- |
| Serial | Character | Purpose |
| A | ‘\n’ | Escape sequence for new line. |
| B | ‘\0’ | null character to represent end of string of characters. |
| C | EOF | It means End Of File. And , it is used to know if there are more character to read from file. |