

Name: Bibek Dhungana**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.

2. 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	<code>fwrite</code>	Binary file
B	<code>getc</code>	Text file
C	<code>fread</code>	Binary file
D	<code>fscanf</code>	Text file

3. What does the following characters do?

Serial	Character	Purpose
A	'\n'	Escape sequence for new line. It is required to go to new line.
B	'\0'	null character to represent end of string. This character help to know when string is ended.
C	EOF	It means End Of File. And it is used to know if there are more character to read from file.