GIT Versioning System

Problem 1 (5 marks)

Set up the git versioning system on your system. Establish a connection with your bitbucket account and create a LAB3 repository.

Problem 2 (10 marks)

Write down a C program that accepts string via command line arguments. Converts the string to a floating-point number by writing your own function. If the string is not a valid floating-point number, it displays appropriate error.

Problem 3 (25 marks)

Write a program using C-standard I/O library in which main() function receives a file name, search string and replace string via command line arguments

If the name of executable is mygrep than, Pass the file and search string to a function void mygrep(FILE*, char*), which displays all the lines in that file containing the string given to the function as second argument.

If the name of executable is myreplace than, Pass the file search string and replace string to a function void myreplace(FILE*, char*, char *), which displays all the lines in that file containing the string given to the function as second argument and replaced first occurrence of it with string given as third argument. The main function is partially written. Complete the code of the given functions

Problem 4 (10 marks)

Push the code of Problem 2 and Problem 3 to the LAB3 repository you created previously in the Problem 1 and write down all the commands you used on a piece of paper

Problem 5 (10 marks)

See the details of following for viva:

- Basic workflow of git
- Status of file throughout the execution of git
- Removing and renaming files
- Difference between real and forward merge

Please do it yourself

(Strictly use gcc for compiling and must not use any system call)

Good Luck & Happy Learning