CS1580 - Introduction to Programming Lab (FS2024)
Lab 9

Lab Objectives

In this lab, you will be implementing the following topics:
- String manipulation
- File I/O

Lab Task: Count Words & Characters
In this assignment, you will write a program that reads input.txt file and prints the number of characters and words in that file.
Implement in one file. No additional functions are needed.

In the main,
1. Read the input.txt file using the syntax below. Include <fstream> in your code.
   ```
   ifstream file("input.txt")
   ```

2. Read the file line by line using the getline() function.
3. Count the number of words and characters. Print the results.

Expected Output

Number of words: 198
Number of characters: 1085

Gitlab Cloning Instructions
- Open the browser and go to https://git-classes.mst.edu/. Click on the Lab7 repository named *2024-FS-303-lab8-<your_username>*
- Click on 'Clone' button and copy the HTTPS link.
- Open Putty and
  - Change the directory to SDRIVE: `cd SDRIVE`
  - Clone the repository: `git clone <copy_the_HTTPS_link_here>`
  - Change the directory to cloned repository: `cd 2024-FS-303-lab9<your_username>`
- Start coding by opening a new file in nano: `nano main.cpp`

Compiling Instructions
- To run your code, `fg++ main.cpp`
- To get the output, `./a.out`

Submission Instructions
Push your code to your gitlab account.
- Add all your files to the repository, `git add .`
- Commit your changes, `git commit -m "<your_message_goes_here>"`
- Push the changes, `git push`