

File Structures (2022)

Lab2

Some notes:

File mode flag	Default open mode
ios::in	Input mode. Information will be read from the file. If the file does not exist, it will not be created and the open function will fail.
ios::out	Output mode. Information will be written to the file. By default, the file's contents will be deleted if it already exists.
ios::app	Append mode. If the file already exists, its contents are preserved and all output is written to the end of the file. By default, this flag causes the file to be created if it does not exist.

Exercise 1:

- Write c++ program to open a file and read data till the end of this file using **eof()** function.
- Write c++ program to read data from the file created in previous exercise using **get(ch)** function (count all characters in your file and display it on the screen).

Exercise 2:

Write c++ program to write data read from user into file named “**file1.txt**” using **put(ch)** function and stop reading data when the user enter **a period** (.).

Exercise 3:

Write C++ Program which asks the user to enter the following data (**his name, phone number and his academic year**), and write it to a file, the name of file taken from user (“mydata.txt”). Then read the data from the file as follow:

- read word by word (count number of words in your file)
- read only one line
- read all lines in a file (count number of lines in your file.)

- To read data from file and include the white spaces (space, tab and newline) we can use:

```
ifstream out;  
1- out>>noskipws>>ch OR  
2- out.get(ch)
```