ONLINE RESOURCE: https://www.tutorialspoint.com/cplusplus/cpp\_files\_streams.htm

Text File - in brief - A file containing only unicode characters

write to file- save data to a file

read from a file- retrieve data from a file

How is a file related to data structures? It is a collection of primitive data types.

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| **Data Type** | **Description / In your own words** |
| ofstream | stands for output file stream. allows you to pass data to a text file |
| ifstream | stands for input file stream. allows you to read data from a file |
| fstream | the class from which the objects ofstream and ifstream are created. |

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| **Mode Flag** | **Description / In your own words** |
| ios::app | adds new data to the end of a text file (append) |
| ios::ate | 1. opens a file 2. moves to the end to append data |
| ios::in | a file is opened with the intention of reading from it. the program will receive input from the file. |
| ios::out | a file is opened with the intention writing to it. the program will send output to the file. |
| ios::trunc | if a file exists, its content is deleted when the file is opened. |

**Lab Assignment:**

Create a text file.

ofstream input information on 10 students into a text file.

student ID, First Name, Last Name, DOB, and address.

Create a header row for your student information.

Attach Snipping photo source code and file containing student information. (See attached text file photo below.)



