

Lab 9: File I/O

For UNT CSCE1030 Fall 2021

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File I/O basics:

- Insert the library:

```
#include <fstream>
```

- Assign your file stream a variable:

```
ifstream fin; // declaration of the stream of type input  
ofstream fout; // declaration of the stream of type output
```

- Open file / Close your file after you're done:

```
fin.open("data.dat");  
// file manipulations go here  
fin.close();
```

Note:

Remember to put your file with data to the same folder where your main function is.

How to get input from file / or output to it?

fin >> var1; // reading in the input

fout << var1; // outputting var1 to the output file

Fail check for file opening

```
if (fin.fail())  
    {  
        cout<<"File does not exist."<<endl;  
        exit(1);  
    }
```

EOF check (End-Of-File)

```
while (!in_s.eof()) {  
    // manipulations with the data in the file  
}
```