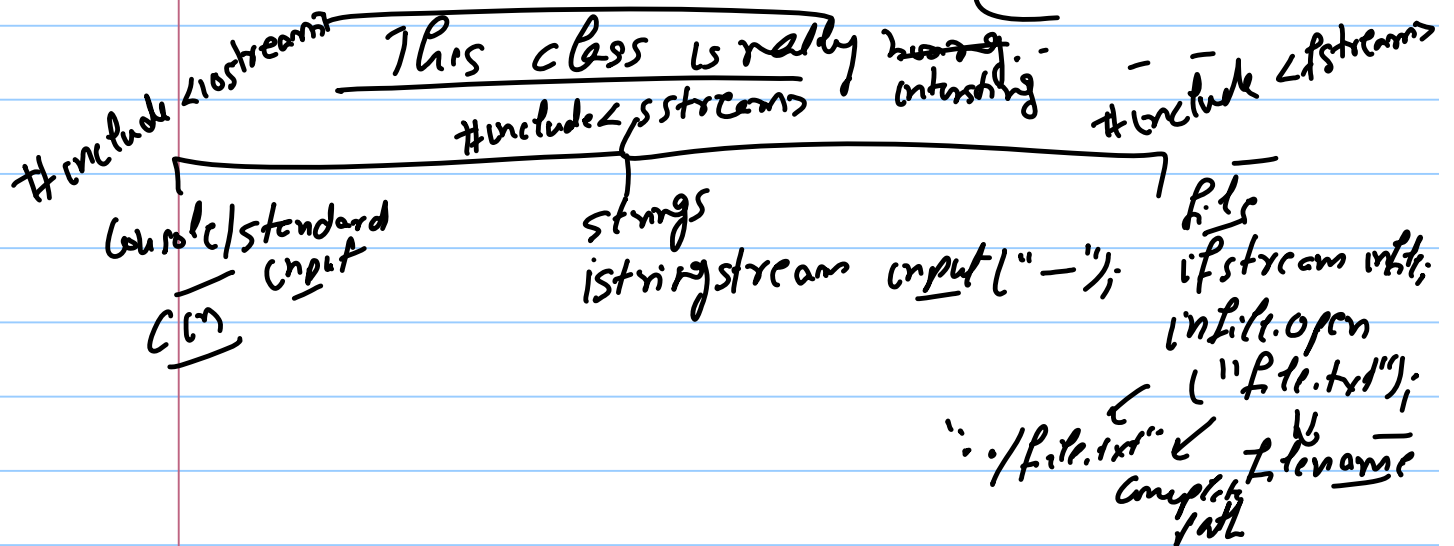


Sep 24, 2018

Last Class: - <

Streams (Input)

Trivia? = Eg Linux
 Jan 14? Topic
 of Captain
 Maker Sententi?



i string stream input ("Hello, how are you?");

string word; line;

① while (input >> word) {

:

}

② while (getline(input, line) {

:

③ while (input.getline(word, 100)) {

Not showing them mix up

File - File.txt

Hello I am really enjoying WU100.
What a wonderful course this is.
I am glad that I chose IIT Delhi.
I am sure this will help me in future.

line 1: 34 chars, 6 words

line 2: 32 chars, 5 words

line 3: 39 chars, 8 words

line 4: 0 chars, 0 words

line 5: ~~37 chars, 9 words~~

```
int countWords (string str) {  
    istream input (str);  
    int wordcnt = 0; string word;  
    while (input >> word) {  
        wordcnt++;  
    }  
    return wordcnt;  
}
```

```
void inputStats (string filename) {  
    ifstream inFile; HW  
    inFile.open(filename);  
    string line; int longest = 0;  
    int linecnt = 0;  
    while (getline(inFile, line)) {  
        linecnt++;  
        cout << "Line " << linecnt << endl;  
        << "Chars" << wordcount(line)  
        << "Words" << endl;  
        3 inFile.close();  
        Longest: 37 chars, avg: 27 chars  
    }  
}
```

#include "f1.h"
 → if stream is input;
 promptUserForFile("f1.txt");

#include <iostream> output streams
 #include <fstream>
 #include <fstream>
 Console
 cout
 ostream out;
 ofstream outFile
 outFile.open("out.txt");

outFile.close();

string str = "Hi, put me on the stream";

outFile

out

cout << str;

string mystr = out.str();

extract the string
 written on out string stream

input
in built
C++

```
ifstream inFile;  
inFile.open("file.txt");
```

return a
string
which
is
the name
of the file

↓ standard library
ifstream inFile;
↖ prompt User for file
inFile, "Enter the file name:"
\$ > file.txt } file2345.txt

Program to print squares of first 2
natural numbers to a file each
line