ITP 365

Lecture 3

* Cin only reads up to the first whitespace (space, tab, enter)
* Std::getline solves this
  + Parameters: input stream, string to store the line in
* If you do a cin and then a getline
  + It won’t work well -> c++ stops reading as soon as it hits whitespace
  + Fix by doing cin.ignore() –> skips everything until the newline
  + Ex. 5 ABC -> it will not put ABC in getline it will stop at whitespace
  + If you do cin.ignore(), then it will be something like
    - 5
    - ABC
* File stream
  + #include <fstream>
  + std::ofstream fileStream(“Output.txt”)
  + fileStream << “Hello”; // writes to the file Output.txt
  + fileStream.close() // close bc only can have 1 stream connected to a file
* Input file stream
  + Std::ifstream fileStream(“Input.txt”)
    - Int num = 0;
    - fileStream >> num;
  + Check if file didn’t open properly
    - If (fileInput.is\_open()){
      * Do stuff
    - Else{
      * Cout << “Error: file not there”;
  + Check if you’re at the end of file
    - Eof returns bool when ur at end of file or not
    - While (fileInput.eof() != true){
      * Int num
      * FileInput >> num;
      * Cout << num << endl;
* **String streams**
  + **#include <sstream>**
  + **std::istreamstream**
  + **std::ostringstream**
  + **Basically lets you take apart each number in a stream**
    - **Istringstream stream stream(“1 2 3”)**
    - **While (!stream.eof()){**
      * **int x;**
      * **stream >> x;**
      * **std::cout << x << std::endl;**