**PROGRAMMING IN FINANCE**

**FINAL PROJECT**

1. **[ios::ate]🡪**Set the initial position at the end of the file. If this flag is not set, the initial position is the beginning of the file.
2. **[ios::app]🡪**All output operations are performed at the end of the file, appending the content to the current content of the file.
3. Reading from the file with a delimiter for **Results.txt**

**x--------------------------------------------------------------x**

string str; // This will store your tokens

ifstream file("data.txt");

while (getline(file, str, ',') // You can have a different delimiter

{

// Process your data

}

x----------------------------------------------------------------x

1. **To read and write from txt files :** **<https://www.youtube.com/watch?v=Iho2EdJgusQ>**
2. **Merge Sort:** [**https://stackoverflow.com/questions/1733480/what-is-the-best-way-to-sort-link-list**](https://stackoverflow.com/questions/1733480/what-is-the-best-way-to-sort-link-list)
3. **How to read from the file:** [**https://stackoverflow.com/questions/41456245/is-it-possible-to-iterate-through-a-text-file-lines-and-use-stringstream-to-pars**](https://stackoverflow.com/questions/41456245/is-it-possible-to-iterate-through-a-text-file-lines-and-use-stringstream-to-pars)
4. **Try to use tab for the output (\t)**
5. **GUI:** [**https://social.msdn.microsoft.com/Forums/vstudio/en-US/e6fbde42-d872-4ab3-8000-41ab22a4a584/visual-studio-2017-windows-forms?forum=winformsdesigner**](https://social.msdn.microsoft.com/Forums/vstudio/en-US/e6fbde42-d872-4ab3-8000-41ab22a4a584/visual-studio-2017-windows-forms?forum=winformsdesigner)
6. [**https://social.msdn.microsoft.com/Forums/vstudio/en-US/e6fbde42-d872-4ab3-8000-41ab22a4a584/visual-studio-2017-windows-forms?forum=winformsdesigner**](https://social.msdn.microsoft.com/Forums/vstudio/en-US/e6fbde42-d872-4ab3-8000-41ab22a4a584/visual-studio-2017-windows-forms?forum=winformsdesigner)
7. **DESIGN PATTERN: BRIDGE PATTERN**

**-you want to share an implementation among multiple objects**