Final Project Notes

Deadlines

- **17 MAR** Final Project Checkpoint: Consultation.
- **1 April** Deadline for Topic Selection.
- **21 APR** Final Project Checkpoint: Progress Report (mandatory). Consultation (upon request).
- **12 MAY** Personal presentation of the Final Project.

Minimal requirements:

- an object-oriented approach to programming,
- dynamic memory management,
- exception handling,
- file management.

Extra techniques:

- Inheritance (base and derived classes).
- Polymorphism: abstract classes and virtual functions.
- Operator overloading with local and global operations.
- Multiple inheritance.
- Generic data structures: class and function templates.

There are some extra points assigned to some students with the best projects (includes using extra techniques)

Grading:

Accepted **Or** **Rejected**

Tips for code that is considered good:

- Does what it should.
- Follows a consistent style.
- Is easy to understand.
- Has been well-documented.
- Can be fully tested.

Useful link on how To Document and Organize Your C++ Code

http://www.edparrish.net/common/cppdoc.html

Tips for project report:

- Front Page (Name of Project, student, ..)
- Index
- Introduction to Project
- Program Analysis
- A Flow Chart (to explain the working)
- Program Code (with description for each part)
- Testing: a section about how the project was tested for correctness.
- Output Screenshots
- Summary

Note: These are just tips to help you with your code and document, you are free to do it in any other way

Important Notes

- **You can use any external libraries or resources for your code, but you should mention that and it will not be graded. It is just to help you with your project.**

- **In the final project defense, you should answer any question related to your code and you should be ready to explain any piece of the code (otherwise it means that it is not your code).**

- **Consultations for the Final Project will be arranged by the lab instructors. You may also request personal consultation with your lab instructor in their office hours (online).**