



UNIVERSITY OF
LINCOLN

School of Computer Science
Assessment Package Briefing Document

Title: CMP1903M Object Oriented
Programming: Assessment 1

Indicative Weighting: 20% (Group)

Learning Outcomes:

On successful completion of this assessment package a student will have demonstrated competence in the following areas:

- [LO1] Demonstrate the use of version control tools in a software development project
- [LO2] Identify the values of object-oriented design and programming

Complete this assignment in a group. Your groups will be allocated early in the Semester.

European Council Voting Calculator

Your task in your group is to produce a C# application which replicates the European Council Voting Calculator. You can see this calculator in action at:

<https://www.consilium.europa.eu/en/council-eu/voting-system/voting-calculator/>

In producing this application:

- a) Use either a console implementation or a Windows Forms presentation.
- b) The implementation may differ from the web-based calculator, but it should still show the same information.
- c) You must use C#.
- d) You must use GitHub or another version control tool.
- e) At the very least, implement the '**qualified majority**' voting rule and the '**all countries participating**' rule, although other rules may be implemented.
- f) The example shows the result being shown 'on the fly'. Use this method of showing the results or delayed on a menu selection button press for example.

Your implementation will be graded through a presentation at which all your group members **must** attend.

Your presentation should show:

- a) That you have used version control tools
- b) That you have used basic object-oriented features within your code, such as:
 - a. Class implementations
 - b. Object instantiations
 - c. Method calls

- c) How your code uses 2 of the principles of object-oriented design and programming:
 - a. Encapsulation
 - b. Data abstraction
- d) The names of your group members.

Please see the Criterion Reference Grid for details of how the presentation will be graded.

Submission Guidelines

Please zip up your code files and the presentation as a compressed ZIP file (**no RAR or any other file formats will be accepted. Please use the standard 'Windows Compressed File' zip format or other platform standard zip formats**) and should be submitted through Blackboard in the '*CMP1903M Assessment Item 1 Supporting Documentation Upload*' section of the Assessments folder.

This assessment is graded using a criterion reference grid. You should be clear in your understanding of the grading principles; if you are not, please seek the advice of the module staff.

Hand In Instructions

See hand in schedule.

DO NOT include this briefing document with your submission.