

CHL711: Numerical Methods in Chemical Engineering

Lab Activity 3: Solution of Linear Algebraic Equations

Due Date: start of fourth lab session.

Write a report on any suitable numerical method to solve a set of linear algebraic equations.

The report should highlight different aspects of the problem. It should contain the source code.

A typical code should have at least the following modules:

- Main module: It will invoke, input, setup, work, analysis, output modules.
- Input module: All the inputs should be read/generated in this module.
- Setup module: The input is processed here and other variables are set here so that actual work can be started.
- Work module: The actual work takes place here
- Analysis module: The analysis or any post processing of results will take place here.
- Output module: All outputs should be generated here.

The program should not have any input/output from the terminal. Your programming language should allow for this kind of program. In case it does not then please use a language which does.