

CSL1010 – Minor project



* Objective

Making a command line software for square matrix calculations like determinant, adjoint, inverse, etc

* Outline

The software can perform the following tasks :
determinant, minor, cofactor, inverse, linear equations (2 and 3 variables) using Cramer's rule, file I/O
User specifies a filename for input and output, those are the files which are used throughout runtime
The program runs endlessly unless an exit trigger(input) is given

* Project statistics

Program size : 510 lines
Total LOC : 464 lines
Space : 15.4 kiloBytes

* Concepts used

- Macros
- String manipulation using `<string.h>`
- File handling (`fopen`, `fprintf`, `fscanf`, `fclose`)
- Recursion
- 2D arrays
- Console/Terminal manipulation
- Infinite loops and exit conditions

* Important note

Some functions like `system("clear")` work in Mac/UNIX based systems and not Windows so it might affect the program visually

* My GitHub repository link

<https://github.com/ps-1305/matt-the-matrix-guy>