This repository collects my project prepared for a **Numerical Methods** course (at GUT).

**First project - MACD Trading indicator**

This project is an implementation of MACD (moving average convergence/divergence) trading indicator. It contains a sample usage, prepared on real gold shares from 2020 to 2023. A simulation of buying and selling shares has been included. The following libraries have been included: pandas, matplotlib, and datetime.

**Second project - Systems of linear equations**

This project implements various methods of solving systems of linear equations. The following methods were implemented: Jacobi's, Gauss-Seidel, LU\_factorization. Morover, this project was created withou using *numpy* library, meaning the operations on matrices were implemented. The following libraries have been included: pandas, math, and time.