First semester Clanguage project

Brief description

one of the following projects must be selected for its implementation in the C programming language:

- embedded systems
- terminal(operative system terminal) game
 - snake game
 - who wants to be a millionaire game
 - Sudoku game
 - guess a word game
- function approximation library
- 4. lineal equation system solver
- 5. differential equation solver

Requirements

- Original content you can get inspiration from others people code on internet, however writte most of the code by yourself.
- A command line interface all the projects (exeption - the embedded systems project) must have an user interfase that allows the user

interact with the program and get all the functionallities.

- 3. Working functionality all the funtionallities should work according to the goals of the project
- 4. Structured program divide the project in chuncks of code using as main criteria the functionalities of the project.
- 5. Defense all the items in the written report must be explained to the teacher (online or presensial).
- 6. Deadline sent everything before 20.12.2024

Report

The report is a pdf file which must contain:

- 1. Information page
 - Project name
 - Students full names
 - Academic group
- 2. Content page
- Project goals
 - Main goal
 - Secondary goals
- 4. Problem or project formulation
- 5. Solution formulation
 - solving algorithm formulation
 - diagram of the solving algorithm
 - block diagram by functionality
- Code implementation
 - code explanation by functionality

7. Results

- code execution example
- graphical results
- 8. Conclusions

Final product

The next products must be done, working and sent before the deadline

- 1. A written report in pdf format.
- 2. All the $oldsymbol{\mathbb{C}}$ code used for the project.