

## Project 2 – deadline 31<sup>st</sup> January 2021

The project will consist of two parts:

1. implementation of the algorithms below (preferably in PROLOG; any other language is allowed but with 2 points penalization).
2. a written document, where you treat the two subjects below (between 2-10 pages without the code; **the entire code is added at the end of the document**).

The whole project will be uploaded in MS Teams Assignment as **one file** in pdf format (no archives). Please insert your name in the file name.

You must work individually for the project. **Attention:** your projects will be checked for similarities with Turnitin.

Between 2-6 February, I will meet individually with each of you on MS Teams to present your projects (30 minutes for each student, there will be a planning for that). But if you are ready any time before the deadline, please let me know and we can meet for the presentation. **Attention:** your project is not graded unless you present it.

I will ask you questions about the code and about what you write in the document; **Attention:** a program with any explanatory comments included will not be considered at all).

All the resources (on internet, books) that you consult for the project must be cited.

If you have questions, my email is [cidota@fmi.unibuc.ro](mailto:cidota@fmi.unibuc.ro)

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You are required to solve the following:

1. The requirements in Lab 5, but with your own Rules and Questions. The Rules must be formulated such that the length of the chaining is at least 3 (i.e there are at least 3 rules R1, R2, R3 such that one of the premises of R3 is the conclusion of R2 and one of the premises of R2 is the conclusion of R1).
2. The requirements in Lab 6, but with your own Rules (at least 3). You must also define the degree curves for the predicates that appear in the Rules.

Obs. In the written document, you are allowed to draw the degree curves by hand and insert the scan into the document (everything else must be typed).

**Note:** all the procedures will be implemented in the versions presented at the course (from Ronald Brachman, Hector Levesque. Knowledge representation and reasoning, Morgan Kaufmann 2004).

The knowledge will be represented in whatever format you choose. The rules will be read from a file and the results will be displayed on the screen.

Each subject will receive a grade. The grade for this project will be 50%G1+50%G2.

Marina Cidota

06.01.2021