



4AIT – Quick project

Logic Programming

The solution is at the end of calculation

Programming
State Space
Heuristic
Solver

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1 PREAMBLE: GENERAL INSTRUCTIONS

To give back the realizations: A **.zip** folder in the site sce.sad.supinfo.com

Realization: **Groups of 2 to 4 students.**

Programming language: **FREE** (It will justify your choice).

Project: **CHATBOT** (not obliged to do in graphic version - text version/console accepted).

Defense: time of defense is **20 minutes** (local decision to planning).

Notation mark: **(Realization + Defense)/2**

PLAGIARISM VERSIONS OF EXISTING = "**cheater**"

2 PROJECT PRESENTATION

You must create a CHATBOT. The choice of programming language is free. You must create a quick and effective exchange with meaning.

Possible specific themes are:

- Mechanics (car, motorcycle, garage, breakdown, repair ...)
- Medical (illness, remedy, symptoms ...)
- Music (authors, composers, performers, distributors, trend ...)
- Travel (reservation, conveyance, number of participants ...)

You must to choose one of the 4 themes. Understanding theme and build the exchanges are also the project purpose.

Quick project purpose:

1. Create the good data structure
2. Create a large database (credibility is required in the responses)
3. Create comprehensive response rules and strategies
4. Create an AI able to talk to humans
5. Create two different AIs talking to each other
6. Make a scripted version
7. Make a learner version

3 REALIZATION (20 POINTS)

You must give back these elements:

1 – The source code with the executable. (**3 points** – Readability, code structure and portability of the game)

2 – A manual introducing the CHATBOT, its implementation and its running. (**1 point**)

3 – A technical manual with:

- a- AI Presentation: Explain the implantation of the different IA strategies. For all different IA, you explain which one is the best IA, according to your criteria applied. **(3 points)**
- b- Detailed description of algorithms (data structures, heuristics, constraints ...). **(8 points)**
- c- Simulations, tests and graphs to progress in CHATBOT. **(4 points)**
- d- You must justified the programming language choice. Be careful, this justification will according to the AI principles and not because the language is a simple language or it is known by the members of team **(1 point)**

The zip folder (.zip) containing the 2 manuals and code (source / executable) will placed in the website sce.sad.supinfo.com.

4 PROJECT DEFENSE (20 POINTS)

You defend your work during **20 minutes**. Indicate (at least one week before defending) your group (recorded in SCE) to your corrector and your Campus manager to establish the order of defense passage.

- 1 – Presentation of strategic choices, with descriptions of the strengths and weaknesses points. **(10 points)**
- 2 – Resolution performance's evaluation, with explanations of the results. **(5 points)**.
- 3 – Demonstration. **(5 points)**

Note: This defense is technical, you don't sell an object, but you present algorithms and their efficiency.