المقالي اللي جانا في الفاينل

Describe the component....

Components of expert system:

Core components:

- Knowledge base

- Inference engine

- User interface

- Working memory

Other components that may be included:

- Knowledge acquisition subsystem

- Explanation subsystem (Justifier)

- Knowledge Refining System

- User

\*Why do we require the maintenance..?

Some applications of forward chaining need the facility for removing facts from working memory to stop executing the action (slide 19)

Difference between knowledge-based system and expert system?

An expert system is a kind of knowledge based system. The difference is that expert systems specifically target the knowledge of one or more human domain experts; whereas, more general knowledge based systems might utilize heuristics other than those specifically emulating the processes of human domain experts.

What are the forward/backward ...?

The forward and backward chaining systems are the two main types of inference in ES.

The forward chaining follows a data-driven approach by starting with facts from the working memory and using the rules to draw new conclusions to take actions.

The backward chaining follows a goal-driven approach by starting with a goal and looking for rules that will help achieve it, chaining backwards until reaching initial conditions