AI   LAB ASSIGNMENT -5

TITLE :- Write a program to develop mini expert system using prolog.

AIM :- Implementation of expert system.

REQUIREMENTS :- SWI Prolog, Turbo Prolog.

THEORY :-

(1) Architecture of expert System :-
An expert System is a computer program that is designed to solve complex problems and to provide decision making ability like human experts.

(2) Main players of expert system :-
These are 5 members of the expert system :-
→ Domain expert
→ Knowledge engineer
→ Programmer
→ Project Manager
→ End user.

INPUT :- Run program on SWI Prolog.

OUTPUT :- gives decisions based on rules provided in program

PLATFORM :- Linux/ Windows.

FAQ's :-

Q 1) Write in brief forward chaining & backward chaining of inference engine.

→ FORWARD CHAINING :-

It is also known as forward deduction or forward reasoning method when using an inference engine.

Properties ⇒

1) It is a down up approach.
2) It is also called as data driven.

→ BACKWARD CHAINING :-

It is also known as backward deduction or backward reasoning method when using an inference engine.

Properties ⇒

1) It is known as top down approach.
2) It is called as goal driven approach.

Q 2) First down the applications of expert system.

⇒ Different types of medical diagnosis like internal medicine etc.

→ Forecasting for damage

→ Diagnosis of software development project

→ Teaching students specialize task.