CSA-1704 AI FOR LLM

PROGRAM 28

% --- Facts: disease(Name, ListOfSymptoms) ---

disease(flu, [fever, cough, headache, body\_pain]).

disease(cold, [cough, sneezing, runny\_nose]).

disease(malaria, [fever, headache, chills, sweating]).

disease(diabetes, [frequent\_urination, thirst, fatigue]).

% --- Rule to diagnose based on symptoms ---

diagnose(Disease, Symptoms) :-

disease(Disease, DiseaseSymptoms),

subset(DiseaseSymptoms, Symptoms).

% Helper: check if all elements of List1 are in List2

subset([], \_).

subset([H|T], List) :-

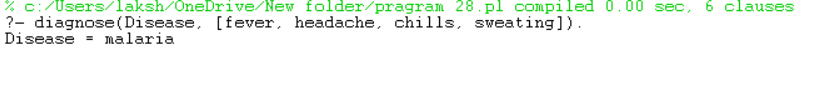
member(H, List),

subset(T, List).

Queries:

?- diagnose(Disease, [fever, headache, chills, sweating]).

Output:

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