

EXPERIMENT:28 Write the prolog program for Medical Diagnosis


PROGRAM:

```
% Facts: disease(Name, SymptomsList)
disease(flu, [fever, cough, headache, body_pain]).
disease(cold, [cough, sneezing, mild_fever]).
disease(malaria, [fever, chills, sweating, headache]).
disease(chickenpox, [fever, rash, tiredness]).
disease(dengue, [fever, headache, joint_pain, rash]).

% Rule: diagnose based on symptoms
diagnose(Symptoms, Disease) :-
    disease(Disease, DiseaseSymptoms),
    subset(Symptoms, DiseaseSymptoms).

% Helper: check if all Symptoms are in DiseaseSymptoms
subset([], _).
subset([H|T], List) :-
    member(H, List),
    subset(T, List).
```

OUTPUT:

 `diagnose([fever, cough, headache], Disease).`

Disease = flu

Next

10

100

1,000

Stop

?- `diagnose([fever, cough, headache], Disease).`