

INPUT:

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% Define symptoms and their possible causes
symptom(fever, [flu, malaria, common_cold]).
symptom(cough, [common_cold, bronchitis, pneumonia]).
symptom(headache, [migraine, tension_headache, sinusitis]).
symptom(fatigue, [anemia, depression, hypothyroidism]).
symptom(rash, [allergy, eczema, measles]).

% Rules to determine possible causes based on symptoms
possible_cause(Symptom, Cause) :-
    symptom(Symptom, Causes),
    member(Cause, Causes).

% Query to get possible causes for a list of symptoms
causes_for_symptoms(Symptoms, PossibleCauses) :-
    findall(Cause, (member(Symptom, Symptoms), possible_cause(Symptom, Cause)),
    PossibleCauses).

% Predicate to ask user for response
ask_for_response(Response) :-
    write('Do you want to ask for more symptoms? (yes/no): '),
    read(Response),
    skip_line. % Skip the rest of the input line

% Predicate to skip the rest of the input line
skip_line :-
    repeat,
    get_char(Char),
    (Char == '\n' -> ! ; skip_line).

% Main predicate to handle user interaction
main :-
    repeat,
    write('Enter symptoms (comma-separated): '),
    read_line_to_codes(user_input, Input),
    (Input == [46] -> ! ; % Check for end-of-file character (ASCII code for '.')
    atom_codes(Atom, Input),
    atomic_list_concat(Symptoms, ',', Atom),
    causes_for_symptoms(Symptoms, PossibleCauses),
    write('Possible causes for '), write(Symptoms), write(' are: '), writeln(PossibleCauses),
    ask_for_response(Response),
    Response \= yes),
    !.

% Entry point
:- initialization(main).
```

OUTPUT:

`%?- consult('p.pl').`

Enter symptoms (comma-separated): fever.

Possible causes for fever are: [flu,malaria,common_cold]

Do you want to ask for more symptoms? (yes/no): |: yes

Enter symptoms (comma-separated): fever, cough.

Possible causes for [fever, cough.] are: [flu,malaria,common_cold]

Do you want to ask for more symptoms? (yes/no): yes.

Enter symptoms (comma-separated): cough, headache, fatigue.

Possible causes for [cough, headache, fatigue.] are: [common_cold,bronchitis,pneumonia]

Do you want to ask for more symptoms? (yes/no): yes.

Enter symptoms (comma-separated): fever, cough, headache, fatigue.

Possible causes for [fever, cough, headache, fatigue.] are: [flu,malaria,common_cold]

Do you want to ask for more symptoms? (yes/no): headache.

true.

?-