% Match exact string

match\_string(Pattern, Input) :-

Pattern = Input.

% Match list pattern

match\_list([Head|Tail], [Head|TailMatched]) :-

match\_list(Tail, TailMatched).

match\_list([], []).

% Match compound term (e.g., person(name, age))

match\_person(person(Name, Age), person(Name, Age)).

% Match nested structure

match\_nested(tree(Left1, Right1), tree(Left2, Right2)) :-

match\_nested(Left1, Left2),

match\_nested(Right1, Right2).

match\_nested(leaf(Value), leaf(Value)).

% Match with wildcard

match\_any(\_, \_). % Always succeeds

% Match with partial structure

match\_partial(person(Name, \_), person(Name, Age)) :-

number(Age).

