## Assignment - 10

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% Expert System for Employee Performance Evaluation
% Rule base
performance(excellent):-
  is_true("has good attendance"),
  is_true("completes projects on time"),
  is_true("shows teamwork"),
  is_true("is punctual").
performance(good):-
  is_true("has good attendance"),
  is_true("completes projects on time"),
  is_true("shows teamwork").
performance(average) :-
  is_true("has good attendance"),
  is_true("completes projects on time").
performance(poor) :-
  is_true("has poor attendance").
% Dynamic predicate to store already answered questions
:- dynamic known/1.
% Asking questions
is_true(Question):-
  known(Question), !. % if already known, do nothing
is_true(Question):-
  \+ known(Question),
  ask(Question).
% Ask and store the answer
ask(Question):-
  format("Does the employee ~w? (yes/no)\n", [Question]),
  read(Response),
  ((Response == yes) -> assertz(known(Question));
   fail).
```

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% Clear knowledge base for next run clear_kb :- retractall(known(_)).

% Start the expert system start :- clear_kb, performance(Result), format("Employee performance is: ~w\n", [Result]), !.
```

start : clear\_kb,
 write("Not enough information to determine performance.\n").

