PROGRAM 30

BACKWARD CHAINING

CODE:

% Define facts representing relationships between animals and their characteristics

mammal(dog).

mammal(cat).

bird(parrot).

bird(eagle).

has_feathers(parrot).

has_feathers(eagle).

has_fur(dog).

has_fur(cat).

% Define rules for inferring additional information can_fly(X) :- bird(X), has_feathers(X).

has fur animal(X):- mammal(X), has fur(X).

% Backward chaining algorithm

backward_chaining(Goal):-

Goal,

write('Goal: '), write(Goal), write(' is satisfied.').

% Define queries for goals

goal1 :- can_fly(parrot).

goal2 :- has_fur_animal(dog).

OUTPUT:

