

EXPERIMENT:25 Write a Prolog program to implement Monkey Banana Problem

PROGRAM:

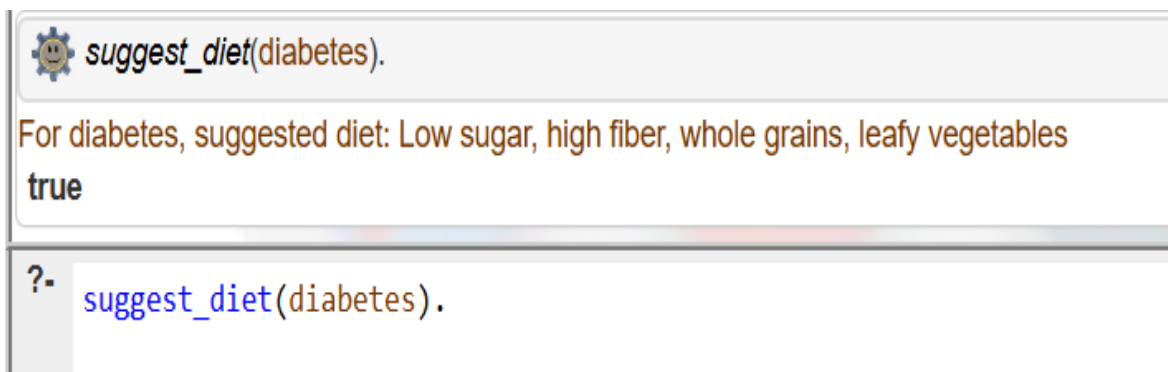
```
% monkey(PosMonkey, PosBox, OnBox, HasBanana)

move(state(at_door, P, no, no), state(at_window, P, no, no)).
move(state(at_window, P, no, no), state(at_center, P, no, no)).
move(state(P, P, no, no), state(P, P, yes, no)). % climb box
move(state(at_center, at_center, yes, no), state(at_center, at_center, yes,
yes)). % grab banana

solve :-
    path(state(at_door, at_window, no, no), state(_, _, _, yes)).

path(State, State) :- write('Monkey has banana!'), nl.
path(State, Goal) :-
    move(State, Next),
    write(State), write(' -> '), write(Next), nl,
    path(Next, Goal).
```

OUTPUT:



The screenshot shows a Prolog environment with a query `suggest_diet(diabetes).` and its output. The output is `For diabetes, suggested diet: Low sugar, high fiber, whole grains, leafy vegetables` followed by `true`. Below the output, there is a prompt `?- suggest_diet(diabetes).`

