Termblook - 08

Problem Statement
Design an algorithm for to solve monky Bonona
Problem and develop a Prolog program for the Same

Theory: "Monkey Banana problem is a very interesting and famous problem. Is the monkey to clever enough. he can come to the block drag the block to the Center climb on it, and get the banana Below one the few observations in this case.

· Monky can reach the block is both them are at the Same level from this we can see that both the monkey and the block are an floor

Monkey can reach, it the block position is not at centre, monkey can drag it to the Center.

It the monkey and the block both are on the floor, and block is at the center then the monkey can climb up on the blocks. So the verticle position of the monkey will changed.

block is on the or at the center then the monkey can get the bananans.

Program !-

move (State (middle, onbor, middle, hasnot), grasep State (middle, Onbox, middle, has), more (State (onfloor, p. H), Climb. State (p. onbox. p. H)), move (State (P1, onfloor, P. H), drag (P, , P2) State (P2, onfloor, B. H), walk (Pi, Pz), State (P2, onfloor, B. H)). conget (State (-,-,-, has)) walk (Pi, P2) Canget (State, 1):move (State 1, -, State 2), Canquet (State 2)

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out put:
  9 - canget (state (at door, of bor, atwindow,
     truc 9
   9 - tree
    1 trace &
    - Canger (state (at door, onfloon, at window, hasnot)),
 1 2 - call: canget (State (atdoor - on floor, atwindow, hasnot), -52, -92)?
 -2 2 Exet: more ( State (a todoor, on floor, a window, hasnot) walk
 3 2 call: (anget (State (-80, on Har, at win dow, Crasnot)))?
  43 Exit: more (Store (a + window, on floor, aboundow, hasnot)]
              climb. State (at window, onbox, a twindow, hasnot))?
 5 3 call (anget (State (aswindow, on box at window, hasno 1))?
  6 4 (all: mare (state (alwindow, on box, atwindow, hashot), -10T
                  - 205)9
 64 Fail: move (State Cates indow on box, alco indow . hasno +). - lot
                      ~ 193)9
5 3 Fail: (anget (State latio in dow, on box, ationdow, has not)) ?
43 Redo: move (state lation dow, on flore, atwindow hashot de clemb.
       State (atwindow, onbox, atwindow, hasno+),
5.3 (all : langer ( State (-138, on floor, -138, hasno f))?
64 Brit: move (-138, onfloor) - 1318, has not).
74 ( cal : Cangel ( State (-138, onbox, -138, hasno+)) 9
85 cas: move ( State (-138, onbox, -138, hashor) - 313, - 263)
```

95 Quit: (angut (State Emiddle, onbox, middle, hasnot)?

53 Friti Cagnet (Stack (middle, onfloor, middle, hasyst) 9

32 Exit: conger (state (atwindow, on floor, atwindow, hasnos))?

11 · Enit : Canget (state (atdoor, on floor, atwindow, Lasnot)).

trace ?

yes.

Conclus ion!

In this termwork we learnt how to solve monky & banana problem. Implemented lesing Prolog.