

## Question 1

Query to Run - **find\_solution(Father, Son).**

Output -

**Father** = smith,

**Son** = baker

**Father** = smith,

**Son** = carpenter

**Father** = smith,

**Son** = tailor

**Father** = baker,

**Son** = smith

**Father** = baker,

**Son** = carpenter

**Father** = baker,

**Son** = tailor

**Father** = carpenter,

**Son** = smith

**Father** = carpenter,

**Son** = baker

**Father** = carpenter,

**Son** = tailor

**Father** = tailor,

**Son** = smith

**Father** = tailor,

**Son** = baker

**Father** = tailor,

**Son** = carpenter

## Question 2

Query – solve(Solution).

Output -

**Solution** = [*state*(0,0,right,3,3), *state*(1,1,left,2,2), *state*(0,1,right,3,2), *state*(0,3,left,3,0), *state*(0,2, right,3,1), *state*(2,2,left,1,1), *state*(1,1, right,2,2), *state*(3,1,left,0,2), *state*(3,0, right,0,3), *state*(3,2, left,0,1), *state*(3,1, right,0,2), *state*(3,3, left,0,0)]