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)]