```
KB-susolution
  def regate-libral (literal)
       if titual [o] -- "
        return literal [1:]
         return 'n' + literal
  def resolve (C1, (2):
    ouselved daure = set (c1) | set (c2)
    for blad in cl:
      if regate-literal (literal) in (2:
       rusohed - clause. remove (literal)
                             - (regate-literal (literal))
  return tuple ( esolved_dause)
def susolution ( kB)
  new-dauses = set ()
  for i, ci in enumerate (KB)
    for j 9 (2 -1 ( kB)
     if i! = 1:
        new-dause = resolve (C1, C2)
        if lin(new dause) >0 & new clause not in
         new-dawns. add ( new-dawse)
  (AV~B) A (BV~C) A C A ~A
```

```
rules = 'Rv~P Rv~Q ~RvP ~RvQ' #(P^Q)<=>R : (Rv~P)v(Rv~Q)^(~RvP)^(~RvQ)
 79
       goal = 'R'
 80
       main(rules, goal)
 81
PROBLEMS
           OUTPUT
                                              PORTS
                    DEBUG CONSOLE
                                    TERMINAL
PS C:\Users\neha2\OneDrive\Documents\NehaKamath 1BM21CS113 AILab> python -u "c:\Us
        |Clause | Derivation
Step
                  Given.
 1.
          RV~P
                  Given.
 2.
          Rv~O
 3.
          ~RVP
                  Given.
                  Given.
 4.
          ~RVO
                  Negated conclusion.
 5.
          ~R
 6.
                  Resolved Rv~P and ~RvP to Rv~R, which is in turn null.
A contradiction is found when ~R is assumed as true. Hence, R is true.
PS C:\Users\neha2\OneDrive\Documents\NehaKamath 1BM21CS113 AILab>
```