```
29-12-23
                 KB - Entailment
             import symbols, And, Not, Implies, satisfiable
of create - KB():
  p=symbols('p')
  KB = And (Implies (p, q), Implies (q, r), Not (r))
  return KB
of grey-entails (KB, greey):
   en = satisfiable (And (KB, Not (query)))
    setur not en
 if name == "_main-":
     kb = create-KB()
    quey = symbols ("p")
    result - greeny-estails ( k b , query)
 print (" KB : ", Kb)
 part ( gury: , query)
 print ( * result)
                                                    dre
                                   anbac
                            - r
                    g->r
                                    F
                             F
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        T
    Т
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                                               - satisfiable
                                               KB does not entail X.
x = B as iff in every model where or is true, B is true.
α Fβ if (α Λ - β) is a unsatisfiable.
                              1) Jim rides a bike to school every
                              2) Jim is good at siding bikes
                           (1) does not entail (2).
```

Output:

KB: ~r & (Implies (p, q,) & Implies (q, r))

query: P

Result: False.

```
PS C:\Users\neha2\OneDrive\Documents\NehaKamath_1BM21CS113_AILab> python
Knowledge Base: ~r & (Implies(p, q)) & (Implies(q, r))
Query: p
Query entails Knowledge Base: False
```