```
from sympy.logic.boolalg import Or, And, Not
from sympy.abc import A, B, C, D, E, F
from sympy import simplify_logic
def is_entailment(kb, query):
    # Negate the query
    negated_query = Not(query)
    # Add negated query to the knowledge base
    kb_with_negated_query = And(*kb, negated_query)
    # Simplify the combined KB to CNF
    simplified_kb = simplify_logic(kb_with_negated_query, form="cnf")
    # If the simplified KB evaluates to False, the query is entailed
    return simplified_kb == False
# Define a larger Knowledge Base
kb = [
                      # A V B
    Or(A, B),
    Or(Not(A), C),
                      # ¬A V C
    Or(Not(B), D),
                      # ¬B V D
    Or(Not(D), E),
                     # ¬D ∨ E
    Or(Not(E), F),
                      # ¬E V F
                      # F
]
# Query to check
query = Or(C, F) \# C \vee F
# Check entailment
result = is_entailment(kb, query)
print(f"Is the query '{query}' entailed by the knowledge base? {'Yes' if result else 'No'}")
→ Is the query 'C | F' entailed by the knowledge base? Yes
```