Excercise 4-1  This exercise serves as a first illustration of the Prolog programming language.

Implement the Tableau Calculus for $\mathcal{ALC}$ in Prolog.

Hints:

a) Start with a predicate nnf for the negation normalform

b) Implement a predicate for finding a contradiction in a list

c) Implement the propositional Tableau Calculus

d) Extend it to $\mathcal{ALC}$. 