1. Construct a nondeterministic finite automaton accepting {ab, ba}, and use it to find a deterministic automaton accepting the same set.

2. Design an ε NFA for the language   L={$0^n 1^m$, n,m≥0}, convert it to its equivalent NFA.

3. Design an ε NFA for the language   L={$0^m 1^n$, m+n=odd} , convert it to its equivalent NFA.

4. Convert the NFA obtained in question 3 to its equivalent DFA.