UE19CS205 - Automata Formal Languages & Logic

Homework - NFA/λ-NFA

1) Given the alphabet is {0, 1}, construct a NFA with three states, that accepts L = {w | w ends with 00}.

2) Given the alphabet is {0, 1}, construct a NFA where the sum of the last 4 digits is even.

3) Construct an NFA for the language of all strings over {a, b, c} for which one of the number of occurrences of a or b or c is a multiple of 3.

4) Construct an NFA that will accept strings over alphabet {1, 2, 3} such that the last symbol appears at least twice, but without any intervening higher symbol, in between: e.g., 11, 2112, 123113, 3212113, etc.

5) What is the language accepted by the following NFAs?