Preparation Activity PA03 – NFAs
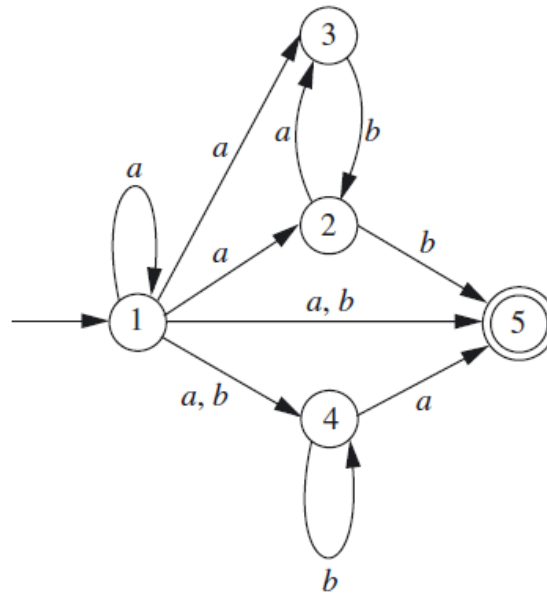
Consider the following NFA:

(a) Why is this FA (Finite Automaton) an NFA and not a DFA?
(b) Present the formal notation (i.e., using the 5-tuple and defining each element of the tuple) of this NFA;
(c) Present the table of transitions of the NFA;
(d) Convert the NFA to a DFA using the subset construction technique and draw the state diagram of the resultant DFA.