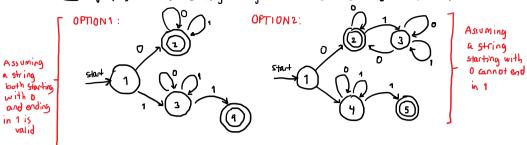
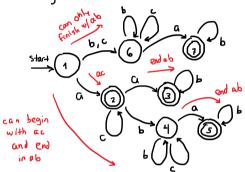
Tuesday, March 1, 2022 7:11 PM

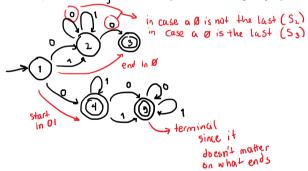
1. Construct a Non Deterministic Finite Automaton for the language in  $\Xi = \{0,1\}$  whose strings begin with "0" or end with "1"



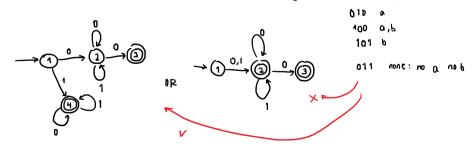
2. Build an NDFA given the next language defined in the alphabet \( \mathbb{E}^{\text{[a,b,e}}\). The set of strings that start in the substring "ac" or finish in the substring "ab"



3. Obtain an NDFA given the following language defined in the alphabet \(\mathbb{E}\_{\sigma}\) \{0,1\} The set of Strings that Start in "O" or finish in "O"



4. Obtain an AFND given the next language defined in the alphabet  $Z=\{0,1\}$ . The set of strings that do not start in "0" or not end in "1"

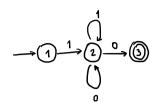


5. Obtain an AFND given the following language defined in the alphabet  $\Sigma = \{0,1\}$ . The set of strings that do not start in "Ol" and do not end "O".



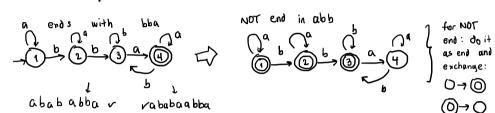
**≥** 

6. Obtain an AFND given the next language defined in the alphabet Z={0,1}. The set of strings that do not start in "O" AND not end in "1"



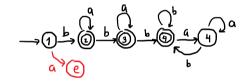
all Strings that don't Start in  $\emptyset$  and don't end in 1

a. Obtain an AFND given the language defined in the alphabet Zo{a, b}. The set of strings that start in "b" and don't end in "boa"



(O)→()

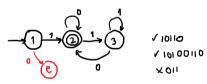
start in b and not end in bba Thus



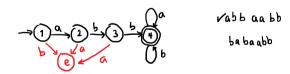
6. All strings that don't start in 0 or don't end in 1



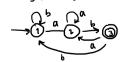
Thus, don't start in 0 or don't end in 1



7. Strings that start with abb



hdian guy: ends with ab



String derivation exercises

1. Build the syntax tree that recognizes the string

a beae be \_ the right the terminal you see. the grammar: from S -> asbs

