Ceng 491- Assignment I

Questions

- 1. Design a DFA for all strings over the alphabet $\sum = \{a, b\}$ that contain aba but not abaa as a substring.
- 2. Design a DFA for the language $L = \{w | \text{ w at least one 0 and at most one 1} \}$
- 3. Design a DFA for the language $L = \{w | \text{ w does not contain } 100 \text{ as a substring} \}$
- 4. Design a DFA all strings over the alphabet $\sum = \{a, b, c\}$ where only two of the symbols occur odd number of times.
- 5. Design a DFA all strings over $\sum = \{0,1\}$ in which every pair of adjacent 0's appears before any pair of adjacent 1's.



