Tutorial 1

1. Give DFA's accepting following languages over the alphabet {0,1}

    I.   Set of all strings that starting from 0's

    II. Set of all string that ending in 11

    III. Set of all strings with three consecutive 0's

    IV. Set of all strings with 011 as a substring

    V. Set of all strings that either begin or end with 01

    VI. Set of all strings that <mark>does not</mark> contains 0011 as a substring

    VII. Set of all strings with length 2

    VIII. Set of all strings with even length.

    IX. Set of all strings with an even number of 0's followed by single 1

2. Consider the DFA with the following transition tables:

- Draw the transition diagram based on the given transition tables.
- what are the languages accepted by each DFA

    a.

	0	1
→ A	A	B
*B	B	A

    b.

	0	1
→ *A	B	A
*B	C	A
C	C	C