

## Recitation #3 – Worksheet

### Regular Expressions

1. Write a regular expression for :

- a. All strings of 0's and 1's.
- b. All strings of 0's and 1's with at least 2 consecutive 0's.
- c. All strings of 0's and 1's beginning with 1 and not having two consecutive 0's.

2. Express in words what the following regular expressions mean:

- a.  $(0|1)^*011$
- b.  $0^*1^*2^*$
- c.  $^{\wedge}[^{aeiou}]^*\$$

3. Find all strings in  $(a|b)^*b(a|ab)^*$  of length less than four.

## DFAs

4. Make a DFA that accepts the strings in the language denoted by regular expression  $ab^*a$

5. Write the regular expression for the following automata:

