Tutorial 3

**Thapar Institute of Engineering and Technology Patiala**

**Computer Science and Engineering Department (CSED)**

1. Design a DFA over that accepts only those words that do not end with 

2. Design a DFA over that accept all strings not containing substring *00* .

3. Design a DFA over that accepts all strings not containing even number of letters.

4. Design a DFA that accepts only those words that begin or end with a double letter.

5. Convert each of the following NFA’s in to DFA’s.

(a)



(b)



(c)



(d)



(e)



6. Find a string of minimum length in  not in the language corresponding to the given regular expression.

a. 

b. 

c. 

7. For each of the following regular expressions, draw an FA recognizing the corresponding language.

(a) 

(b) 

(c) 