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**Department of Computer Science and
Engineering**

ACTIVITY BASED LEARNING REPORT

B.Tech Sem. IV

Branch: CSE

Subject Name: Theory of Automata and Formal Languages

Paper Code: NCS-402

Time: 2 Hrs

Section: IV A

Date: 10/04/2017

- 1. Title :** Formation of human chain for the understanding of DFAs (Role Play)
- 2. Methodology:** In this activity we have represented three problems of DFAs.
 - (a) Generate DFA which does not accept pair of 0's.
 - (b) Generate DFA for the string which ends with 'abb'.
 - (c) Generate DFA for the string with even no. of 0's.
- 3. Procedure for conducting the activity:** We prepared banners for start state, final state, intermediate states and input string. For these three problems we created three teams, and each team had max five members. I gave 15 minutes to each team to prepare the logic for the problem and plan their activity. Each student in the team decided their roles according to the given problem. At the time of activity, they hold the banners and arranged themselves accordingly. They started playing their roles according to the problem, and acted like a real Automata Machine solving the problem.
- 4. Result and Analysis:** Students enjoyed this activity session, and learned these complex problems with fun. At the end of the session I asked few question to the students related to the given problems and they gave correct answers.

