Compiler Lab 2018

Assignment 2

Date: 18.01.2018

1. **Write a program to convert a NFA with ε move to equivalent DFA.**
   Hints:
   Follow the steps:
   - **i) Input the number of states and take those as input.**
   - **ii) Input the number of I/P and take those as input.(With ε)**
   - **iii) For i=1 to number of states**
     For j=1 to number of input+1
     Input $\delta(State_i, I/P_j) \rightarrow State_k$
   - **iv) Construct ε-closure of each state.**
   - **v) Mark ε-closure(Initial state) as new Initial state.**
   - **vi) For i=1 to Number of I/P**
     Construct transitional function
   - **vii) Follow step (Vi) while no new state appear.**

2. **Write a program to convert a RE directly to equivalent DFA.**