- 1. Input a regular expression. Then convert it to NFA.
- 2. Input a regular expression. Then convert it to DFA.
- 3. Input an NFA. Then convert it to DFA.
- 4. Implement simulating NFA algorithm.
- 5. Implement simulating DFA algorithm.
- 6. Implement transition diagram mechanism for recognizing tokens.
- 7. Implement NFA and DFA mechanism for recognizing tokens.
- 8. Input a CFG. Then analyze it.
- 9. Input a CFG. Perform elimination left recursion operations.
- 10. Input a CFG. Perform left factoring operations.
- 11. Input a CFG. Find FIRST and FOLLOW sets.
- 12. Input a CFG. Find FIRST and FOLLOW sets and construct the parsing table.
- 13. Input a CFG. Find FIRST and FOLLOW sets and construct the parsing table. Also show sample derivation of a sentence.
- 14. Input a CFG. Find FIRST and FOLLOW sets and construct the parsing table for panic mode recovery strategy. Also show sample derivation of a sentence.
- 15. Perform semantic analysis.
- 16. Implement a simple code generator for a given block of three address code.