List of Experiments:

1. Write a C program to identify different types of Tokens in a given Program.

2. Write a Lex Program to implement a Lexical Analyzer using Lex tool.

3. Write a C program to Simulate Lexical Analyzer to validating a given input String.

4. Write a C program to implement the Brute force technique of Top down Parsing.

5. Write a C program to implement a Recursive Descent Parser.

6. Write C program to compute the First and Follow Sets for the given Grammar.

7. Write a C program for eliminating the left recursion and left factoring of a given grammar

8. Write a C program to check the validity of input string using Predictive Parser.

9. Write a C program for implementation of LR parsing algorithm to accept a given input string.

10. Write a C program for implementation of a Shift Reduce Parser using Stack Data Structure to accept a given input string of a given grammar.

11. Simulate the calculator using LEX and YACC tool.

12. Generate YACC specification for a few syntactic categories.

13. Write a C program for generating the three address code of a given expression/statement.

14. Write a C program for implementation of a Code Generation Algorithm of a given expression/statement.

1. Write a C program that contains a string (char pointer) with a value \Hello World’. The program should XOR each character in this string with 0 and displays the result.

2. Write a C program that contains a string (char pointer) with a value \Hello World’. The program should AND or and XOR each character in this string with 127 and display the result

3. Write a Java program to perform encryption and decryption using the following algorithms: a) Ceaser Cipher b) Substitution Cipher c) Hill Cipher

4. Write a Java program to implement the DES algorithm logic

5. Write a C/JAVA program to implement the Blowfish algorithm logic

6. Write a C/JAVA program to implement the Rijndael algorithm logic.

7. Using Java Cryptography, encrypt the text “Hello world” using Blowfish.

Create your own key using Java key tool. 8. Write a Java program to implement RSA Algorithm

9. Implement the Diffie-Hellman Key Exchange mechanism using HTML and JavaScript. Consider the end user as one of the parties (Alice) and the JavaScript application as other party (bob).

10. Calculate the message digest of a text using the SHA-1 algorithm in JAVA.