Sample LAB QUESTIONS

1. a) Implement a recursive descent parser for the grammar
   S->aSBc|b
   B->BCd|d
   C->a|b|ε
   b) Write a LEX program to find the occurrence of ab[Cc] or xyz in a given string.

2. Program to generate triples for an expression

3. a) Write a LEX program for validating arithmetic operators.
   b) Write a YACC program to evaluate an expression involving operating +, -,* and /, (,).

4.Write a program to check the syntax of for loop.

5.Write a program to implement operator precedence parsing.

6.Write a program to implement indirect triple representation of 3 address statements.

7. a) Write a C program to implement a transition diagram for an identifier and keywords
   b) Write a lex program to count the number of comment lines in a given C program.
   Also eliminate them and copy that program into separate file.

8. a) Implement recursive descent parsing for the given grammar
   E-->E&E;E| E| !E / id
   b) Write a lex program to identify the tokens in a C program

9.Write a program to implement code optimization that eliminates common subexpression.