

U.S. ~~M.Sc~~ 2nd Semester Examination, 2016

to constitute the syllabus. All the Qs. are compulsory.

COMPILER LAB.

PAPER - COS-206

Full Marks : 25

Time : 6 hours

Answer any one question

1. Write a program in Lex to check a given string is valid ID or keyword or relation operator.
2. WAP to Find total vowels from the input and total consonant from the input.
3. Write programs in LEX/YACC, which replaces all the occurrences of "vidya" with "RAMA" and "sagar" with "SITA".

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4. Write a program using LEX/YACC to count all instance of SHE and HE, including the instances of HE that are included in SHE.
5. Write a program in LEX/YACC to check whether a given expression (relational or assignment or bitwise operator) is valid or not and it gives the type of expression as output.
6. Write a program in LEX/YACC which takes standard input as output of system date and time and give either of the following messages "Good Morning", "Good Afternoon", "Good Evening".
7. Construct a syntax directed translation scheme that translates integers into roman numerals. Implement translator from integers to roman numerals based on above syntax directed translation using LEX/YACC.
8. Write a Lex program to count the number of comment lines in a given C program.

- space and Count the no of lines.
13. Write a program in LEX/YACC which takes a C program as inputs and delete the comment, white space and Count the no of lines.
12. Write a program in LEX/YACC which takes a English sentence as input and gives the output as the parts of speech.
11. Write a lex program to count the number of comment lines in a given C program. Also eliminate them and recognize whether a given sentence is simple or compound.
10. Write a program in LEX/YACC which counts the no of lines, total no of characters, total no of vowels and total no of punctuations in a paragraph.
9. Write a C code analyzer in LEX/YACC : comments, code, white space, count braces, keywords etc. Try to identify function definition and declaration, which are followed by (outside of any braces).

14. Write a program in LEX/YACC to check the parts of Speech of a Sentence.
 15. Write a program in LEX/YACC to count all occurrences of "rama" and "sita" in a given file and eliminate them.
 16. Write program in LEX/YACC that eliminate multiple spaces and tabs and replace with a single space and remove empty lines.
 17. Write a lex program to check the validity of arithmetic statement.
 18. Write a lex program to count the number of printf and scanf statements.
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