Shri Ramdeobaba College of Engineering and Management, Nagpur

Department of Computer Science and Engineering

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Section:- E(2)

Roll number:- 32

Session: 2022-2023

Compiler Design Lab V Semester E

PRACTICAL No. 1

Topic: Lexical Analysis

Platform: Windows or Linux

Tool to be used: FLEX

CO Mapped:

CO1. Use Open Source tools to create a lexical analyzer and parser.

Aim:

1. Design a lexical analyzer to identify the tokens such as keywords, identifiers, operators,

symbols and strings for C language.

2. Write a Lex program to find the parameters given below. Consider as input a question paper of

an examination and find:

Date of examination, semester, number of questions, numbers of words, lines, small letters,

capital letters, digits, and special characters.

Input File:-

ABC College

Date: 8/9/2022 Sem: I, II, III, IV, V, VI, VII, VIII

Question1 : What are the benefits of tree plantation?

Question2 : What is water pollution?

Question3 : What should be done to avoid road accidents?

Question4 : What are your view on noise pollution?

Question5 : Why should people adopt pets?

Question6 : What is green gym?

Question7 : What norms must pe implemented to minimize the loss from construction to

environment?

Question8 : What is air pollution?

Input:-

/\*Prints Line number of a line to stdout\*/

%{

int lineno=1;

%}

%%

^(.\*)\nprintf("%d\t%s",lineno++, yytext);

%%

int main()

{

yylex();

return 0;

}

main()

{

yyin= fopen("myfile.txt","r");

yylex();

printf(" This File contains ...");

printf("\n\t %d lines", lines);

}

int yywrap()

{

return(1);

}

Output:-

