**G. H. RAISONI COLLEGE OF ENGG., NAGPUR**

**(An Autonomous Institute)**

**Department of Computer Science & Engg.**



**Date: 12-09-2021**

**Practical Subject: COMPILER DESIGN**

**Session: 2021-22**

**Student Details:**

| **Roll Number** | 01 |
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| **Semester** | 9th |
| **Section** | A |
| **Batch** | CSE |

**Practical Details: Practical Number-8;**

| Practical Aim | Write a LEX program to find the number of vowels and consonants. |
| --- | --- |
| Theory & Syntax | The lex command reads file or standard input, generates a C language program, and writes it to a file named lex.yy.c. This file, lex.yy.c, is a compilable C language program. A C++ compiler also can compile the output of the lex command. The -C flag renames the output file to lex.yy.C for the C++ compiler.  The generated program is a C language function called yylex. The lex command stores the yylex function in a file named lex.yy.c.  lex Specification File  The input file can contain three sections: definitions, rules, and user subroutines. Each section must be separated from the others by a line containing only the delimiter, %% (double percent signs). The format is:  definitions  %%  rules  %%  user subroutines |
| Program | %{  int vow\_count=0;  int const\_count =0;  %}    %%  [aeiouAEIOU] {vow\_count++;}  [a-zA-Z] {const\_count++;}  %%  int yywrap(){}  int main()  {  printf("Enter the string of vowels and consonents:");  yylex();  printf("Number of vowels are: %d\n", vow\_count);  printf("Number of consonants are: %d\n", const\_count);  return 0;  } |
| Output |  |
| Conclusion | Performed and executed lex program find the number of vowels and consonants. |