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

**(An Autonomous Institute)**

**Department of Computer Science & Engg.**



**Date: 05-09-2021**

**Practical Subject: COMPILER DESIGN**

**Session: 2021-22**

**Student Details:**

| **Roll Number** | 01 |
| --- | --- |
| **Name** | Anand Suralkar |
| **Semester** | 9th |
| **Section** | A |
| **Batch** | CSE |

**Practical Details: Practical Number-4;**

| Practical Aim | Write a LEX program find Average of given Numbers |
| --- | --- |
| Theory & Syntax | Lex Program to accept a valid integer and float value  Last Updated : 30 Apr, 2019  Lex is a computer program that generates lexical analyzers.  Lex reads an input stream specifying the lexical analyzer and outputs source code implementing the lexer in the C programming language.  The commands for executing the lex program are:  lex abc.l (abc is the file name)  cc lex.yy.c -efl  ./a.out  Let’s see to accept a valid integer and float value  using lex program.  Examples:  Input :  -77.99  Output :  Valid Float Value  Input :  fghj  Output :  Not a valid Integer/ Float number |
| Program | %{  #include<stdio.h>  #include<math.h>  int sum=0,n=0;  %}  %%  [0-9] { sum = sum + atoi(yytext);  n++;}  \n return sum;  %%  int main()  {  printf("avarage is %d ",yylex()/n);  return 0;  } |
| Output |  |
| Conclusion | Performed and executed lex program find Average of given Numbers |