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

**(An Autonomous Institute)**

**Department of Computer Science & Engg.**



**Date: 02-09-2021**

**Practical Subject: COMPILER DESIGN**

**Session: 2021-22**

**Student Details:**

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

**Practical Details: Practical Number-6;**

| Practical Aim | Upper case to lower case and Lower case to Upper case |
| --- | --- |
| Theory & Syntax | 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.  Given a string, convert the characters of the string into opposite case,i.e. if a character is lower case then convert it into upper case and vice-versa.  Examples:  Input : arcade  Output : ARCADE  Input : HELLO EVERY ONE  Output : hello every one  Given a string, convert the characters of the string into opposite case,i.e. if a character is lower case then convert it into upper case and vice-versa.  Examples:  Input : geeksForgEeksOutput : GEEKSfORGeEKS  Input : hello every oneOutput : HELLO EVERY ONE  Steps:  ⦁ Take one string of any length and calculate its length.  ⦁ Scan string character by character and keep checking the index. If a character in an index is in lower case, then subtract 32 to convert it in upper case, else add 32 to convert it in lower case  ⦁ Print the final string. |
| Program | lower[a-z]  upper[ A-Z]  %%  {lower} {printf("%c",yytext[0]-32);}  {upper} {printf("%c",yytext[0]+32);}  [\t\n]+echo;  .echo;  %%  int main()  {  yylex(); |
| Output |  |
| Conclusion | Performed and executed lex program to convert Upper case to lower case and Lower case to Upper case. |